

Government Gazette Staatskoerant REPUBLIC OF SOUTH AFRICA REPUBLIEK VAN SUID AFRIKA

		Vol. 669	26	March Maart	2021	No. 44333	
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No.

IMPORTANT NOTICE:

THE GOVERNMENT PRINTING WORKS WILL NOT BE HELD RESPONSIBLE FOR ANY ERRORS THAT MIGHT OCCUR DUE TO THE SUBMISSION OF INCOMPLETE / INCORRECT / ILLEGIBLE COPY.

NO FUTURE QUERIES WILL BE HANDLED IN CONNECTION WITH THE ABOVE.

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HIGH ALERT: SCAM WARNING!!!

TO ALL SUPPLIERS AND SERVICE PROVIDERS OF THE GOVERNMENT PRINTING WORKS

It has come to the attention of the GOVERNMENT PRINTING WORKS that there are certain unscrupulous companies and individuals who are defrauding unsuspecting businesses disguised as representatives of the Government Printing Works (GPW).

The scam involves the fraudsters using the letterhead of *GPW* to send out fake tender bids to companies and requests to supply equipment and goods.

Although the contact person's name on the letter may be of an existing official, the contact details on the letter are not the same as the *Government Printing Works*'. When searching on the Internet for the address of the company that has sent the fake tender document, the address does not exist.

The banking details are in a private name and not company name. Government will never ask you to deposit any funds for any business transaction. *GPW* has alerted the relevant law enforcement authorities to investigate this scam to protect legitimate businesses as well as the name of the organisation.

Example of e-mails these fraudsters are using:

PROCUREMENT@GPW-GOV.ORG

Should you suspect that you are a victim of a scam, you must urgently contact the police and inform the *GPW*.

GPW has an official email with the domain as @gpw.gov.za

Government e-mails DO NOT have org in their e-mail addresses. All of these fraudsters also use the same or very similar telephone numbers. Although such number with an area code 012 looks like a landline, it is not fixed to any property.

GPW will never send you an e-mail asking you to supply equipment and goods without a purchase/order number. *GPW* does not procure goods for another level of Government. The organisation will not be liable for actions that result in companies or individuals being resultant victims of such a scam.

Government Printing Works gives businesses the opportunity to supply goods and services through RFQ / Tendering process. In order to be eligible to bid to provide goods and services, suppliers must be registered on the National Treasury's Central Supplier Database (CSD). To be registered, they must meet all current legislative requirements (e.g. have a valid tax clearance certificate and be in good standing with the South African Revenue Services - SARS).

The tender process is managed through the Supply Chain Management (SCM) system of the department. SCM is highly regulated to minimise the risk of fraud, and to meet objectives which include value for money, open and effective competition, equitability, accountability, fair dealing, transparency and an ethical approach. Relevant legislation, regulations, policies, guidelines and instructions can be found on the tender's website.

Fake Tenders

National Treasury's CSD has launched the Government Order Scam campaign to combat fraudulent requests for quotes (RFQs). Such fraudulent requests have resulted in innocent companies losing money. We work hard at preventing and fighting fraud, but criminal activity is always a risk.

How tender scams work

There are many types of tender scams. Here are some of the more frequent scenarios:

Fraudsters use what appears to be government department stationery with fictitious logos and contact details to send a fake RFQ to a company to invite it to urgently supply goods. Shortly after the company has submitted its quote, it receives notification that it has won the tender. The company delivers the goods to someone who poses as an official or at a fake site. The Department has no idea of this transaction made in its name. The company is then never paid and suffers a loss.

OR

Fraudsters use what appears to be government department stationery with fictitious logos and contact details to send a fake RFQ to Company A to invite it to urgently supply goods. Typically, the tender specification is so unique that only Company B (a fictitious company created by the fraudster) can supply the goods in question.

Shortly after Company A has submitted its quote it receives notification that it has won the tender. Company A orders the goods and pays a deposit to the fictitious Company B. Once Company B receives the money, it disappears. Company A's money is stolen in the process.

Protect yourself from being scammed

- If you are registered on the supplier databases and you receive a request to tender or quote that seems to be from a government department, contact the department to confirm that the request is legitimate. Do not use the contact details on the tender document as these might be fraudulent.
- Compare tender details with those that appear in the Tender Bulletin, available online at <u>www.gpwonline.co.za</u>
- Make sure you familiarise yourself with how government procures goods and services. Visit the tender website for more information on how to tender.
- If you are uncomfortable about the request received, consider visiting the government department and/or the place of delivery and/or the service provider from whom you will be sourcing the goods.
- In the unlikely event that you are asked for a deposit to make a bid, contact the SCM unit of the department in question to ask whether this is in fact correct.

Any incidents of corruption, fraud, theft and misuse of government property in the *Government Printing Works* can be reported to:

Supply Chain Management: Ms. Anna Marie Du Toit, Tel. (012) 748 6292. Email: <u>Annamarie.DuToit@gpw.gov.za</u>

Marketing and Stakeholder Relations: Ms Bonakele Mbhele, at Tel. (012) 748 6193. Email: <u>Bonakele.Mbhele@gpw.gov.za</u>

Security Services: Mr Daniel Legoabe, at tel. (012) 748 6176. Email: Daniel.Legoabe@gpw.gov.za



LIST OF TARIFF RATES FOR PUBLICATION OF NOTICES

COMMENCEMENT: 1 APRIL 2018

NATIONAL AND PROVINCIAL

Notice sizes for National, Provincial & Tender gazettes 1/4, 2/4, 3/4, 4/4 per page. Notices submitted will be charged at R1008.80 per full page, pro-rated based on the above categories.

Pricing for National, Provincial - Variable Priced Notices							
Notice Type	Page Space	New Price (R)					
Ordinary National, Provincial	1/4 - Quarter Page	252.20					
Ordinary National, Provincial	2/4 - Half Page	504.40					
Ordinary National, Provincial	3/4 - Three Quarter Page	756.60					
Ordinary National, Provincial	4/4 - Full Page	1008.80					

EXTRA-ORDINARY

All Extra-ordinary National and Provincial gazette notices are non-standard notices and attract a variable price based on the number of pages submitted.

The pricing structure for National and Provincial notices which are submitted as **Extra ordinary submissions** will be charged at R3026.32 per page.

The **Government Printing Works** (**GPW**) has established rules for submitting notices in line with its electronic notice processing system, which requires the use of electronic *Adobe* Forms. Please ensure that you adhere to these guidelines when completing and submitting your notice submission.

CLOSING TIMES FOR ACCEPTANCE OF NOTICES

- 1. The *Government Gazette* and *Government Tender Bulletin* are weekly publications that are published on Fridays and the closing time for the acceptance of notices is strictly applied according to the scheduled time for each gazette.
- 2. Please refer to the Submission Notice Deadline schedule in the table below. This schedule is also published online on the Government Printing works website <u>www.gpwonline.co.za</u>

All re-submissions will be subject to the standard cut-off times. <u>All notices received after the closing time will be rejected</u>.

Government Gazette Type	Publication Frequency	Publication Date	Submission Deadline	Cancellations Deadline
National Gazette	Weekly	Friday	Friday 15h00 for next Friday	Tuesday, 15h00 - 3 working days prior to publication
Regulation Gazette	Weekly	Friday	Friday 15h00 for next Friday	Tuesday, 15h00 - 3 working days prior to publication
Petrol Price Gazette	Monthly	Tuesday before 1st Wednesday of the month	One day before publication	1 working day prior to publication
Road Carrier Permits	Weekly	Friday	Thursday 15h00 for next Friday	3 working days prior to publication
Unclaimed Monies (Justice, Labour or Lawyers)	January / September 2 per year	Last Friday	One week before publication	3 working days prior to publication
Parliament (Acts, White Paper, Green Paper)	As required	Any day of the week	None	3 working days prior to publication
Manuals	Bi- Monthly	2nd and last Thursday of the month	One week before publication	3 working days prior to publication
State of Budget (National Treasury)Monthly30th or last F the month		30th or last Friday of the month	One week before publication	3 working days prior to publication
Extraordinary Gazettes	As required	Any day of the week	Before 10h00 on publication date	Before 10h00 on publication date
Legal Gazettes A, B and C	Weekly	Friday	One week before publication	Tuesday, 15h00 - 3 working days prior to publication
Tender Bulletin	Weekly	Friday	Friday 15h00 for next Friday	Tuesday, 15h00 - 3 working days prior to publication
Gauteng	Weekly	Wednesday	Two weeks before publication	3 days after submission deadline
Eastern Cape	Weekly	Monday	One week before publication	3 working days prior to publication
Northern Cape	Weekly	Monday	One week before publication	3 working days prior to publication
North West	Weekly	Tuesday	One week before publication	3 working days prior to publication
KwaZulu-Natal	Weekly	Thursday	One week before publication	3 working days prior to publication
Limpopo	Weekly	Friday	One week before publication	3 working days prior to publication
Mpumalanga	Weekly	Friday	One week before publication	3 working days prior to publication

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Government Gazette Type	Publication Frequency	Publication Date	Submission Deadline	Cancellations Deadline
Gauteng Liquor License Gazette	Monthly	Wednesday before the First Friday of the month	Two weeks before publication	3 working days after submission deadline
Northern Cape Liquor License Gazette	Monthly	First Friday of the month	Two weeks before publication	3 working days after submission deadline
National Liquor License Gazette	Monthly	First Friday of the month	Two weeks before publication	3 working days after submission deadline
Mpumalanga Liquor License Gazette	Bi-Monthly	Second & Fourth Friday	One week before publication	3 working days prior to publication

EXTRAORDINARY GAZETTES

3. *Extraordinary Gazettes* can have only one publication date. If multiple publications of an *Extraordinary Gazette* are required, a separate Z95/Z95Prov *Adobe* Forms for each publication date must be submitted.

NOTICE SUBMISSION PROCESS

- 4. Download the latest *Adobe* form, for the relevant notice to be placed, from the **Government Printing Works** website <u>www.gpwonline.co.za</u>.
- 5. The *Adobe* form needs to be completed electronically using *Adobe Acrobat / Acrobat Reader*. Only electronically completed *Adobe* forms will be accepted. No printed, handwritten and/or scanned *Adobe* forms will be accepted.
- 6. The completed electronic *Adobe* form has to be submitted via email to <u>submit.egazette@gpw.gov.za</u>. The form needs to be submitted in its original electronic *Adobe* format to enable the system to extract the completed information from the form for placement in the publication.
- 7. Every notice submitted **must** be accompanied by an official **GPW** quotation. This must be obtained from the *eGazette* Contact Centre.
- 8. Each notice submission should be sent as a single email. The email **must** contain **all documentation** relating to a particular notice submission.
 - 8.1. Each of the following documents must be attached to the email as a separate attachment:
 - 8.1.1. An electronically completed *Adobe* form, specific to the type of notice that is to be placed.
 - 8.1.1.1. For National *Government Gazette* or *Provincial Gazette* notices, the notices must be accompanied by an electronic Z95 or Z95Prov *Adobe* form
 - 8.1.1.2. The notice content (body copy) MUST be a separate attachment.
 - 8.1.2. A copy of the official **Government Printing Works** quotation you received for your notice. (*Please see Quotation section below for further details*)
 - 8.1.3. A valid and legible Proof of Payment / Purchase Order: **Government Printing Works** account customer must include a copy of their Purchase Order. **Non-Government Printing Works** account customer needs to submit the proof of payment for the notice
 - 8.1.4. Where separate notice content is applicable (Z95, Z95 Prov and TForm 3, it should **also** be attached as a separate attachment. (*Please see the Copy Section below, for the specifications*).
 - 8.1.5. Any additional notice information if applicable.

- 9. The electronic *Adobe* form will be taken as the primary source for the notice information to be published. Instructions that are on the email body or covering letter that contradicts the notice form content will not be considered. The information submitted on the electronic *Adobe* form will be published as-is.
- 10. To avoid duplicated publication of the same notice and double billing, Please submit your notice **ONLY ONCE.**
- 11. Notices brought to **GPW** by "walk-in" customers on electronic media can only be submitted in *Adobe* electronic form format. All "walk-in" customers with notices that are not on electronic *Adobe* forms will be routed to the Contact Centre where they will be assisted to complete the forms in the required format.
- 12. Should a customer submit a bulk submission of hard copy notices delivered by a messenger on behalf of any organisation e.g. newspaper publisher, the messenger will be referred back to the sender as the submission does not adhere to the submission rules.

QUOTATIONS

- 13. Quotations are valid until the next tariff change.
 - 13.1. Take note: GPW's annual tariff increase takes place on 1 April therefore any quotations issued, accepted and submitted for publication up to 31 March will keep the old tariff. For notices to be published from 1 April, a quotation must be obtained from GPW with the new tariffs. Where a tariff increase is implemented during the year, GPW endeavours to provide customers with 30 days' notice of such changes.
- 14. Each quotation has a unique number.
- 15. Form Content notices must be emailed to the *eGazette* Contact Centre for a quotation.
 - 15.1. The *Adobe* form supplied is uploaded by the Contact Centre Agent and the system automatically calculates the cost of your notice based on the layout/format of the content supplied.
 - 15.2. It is critical that these *Adobe* Forms are completed correctly and adhere to the guidelines as stipulated by **GPW**.

16. APPLICABLE ONLY TO GPW ACCOUNT HOLDERS:

- 16.1. GPW Account Customers must provide a valid GPW account number to obtain a quotation.
- 16.2. Accounts for **GPW** account customers **must** be active with sufficient credit to transact with **GPW** to submit notices.
 - 16.2.1. If you are unsure about or need to resolve the status of your account, please contact the GPW Finance Department prior to submitting your notices. (If the account status is not resolved prior to submission of your notice, the notice will be failed during the process).

17. APPLICABLE ONLY TO CASH CUSTOMERS:

- 17.1. Cash customers doing **bulk payments** must use a **single email address** in order to use the **same proof of payment** for submitting multiple notices.
- 18. The responsibility lies with you, the customer, to ensure that the payment made for your notice(s) to be published is sufficient to cover the cost of the notice(s).
- 19. Each quotation will be associated with one proof of payment / purchase order / cash receipt.
 - 19.1. This means that the quotation number can only be used once to make a payment.

COPY (SEPARATE NOTICE CONTENT DOCUMENT)

- 20. Where the copy is part of a separate attachment document for Z95, Z95Prov and TForm03
 - 20.1. Copy of notices must be supplied in a separate document and may not constitute part of any covering letter, purchase order, proof of payment or other attached documents.

The content document should contain only one notice. (You may include the different translations of the same notice in the same document).

20.2. The notice should be set on an A4 page, with margins and fonts set as follows:

Page size = A4 Portrait with page margins: Top = 40mm, LH/RH = 16mm, Bottom = 40mm; Use font size: Arial or Helvetica 10pt with 11pt line spacing;

Page size = A4 Landscape with page margins: Top = 16mm, LH/RH = 40mm, Bottom = 16mm; Use font size: Arial or Helvetica 10pt with 11pt line spacing;

CANCELLATIONS

- 21. Cancellation of notice submissions are accepted by GPW according to the deadlines stated in the table above in point 2. Non-compliance to these deadlines will result in your request being failed. Please pay special attention to the different deadlines for each gazette. Please note that any notices cancelled after the cancellation deadline will be published and charged at full cost.
- 22. Requests for cancellation must be sent by the original sender of the notice and must accompanied by the relevant notice reference number (N-) in the email body.

AMENDMENTS TO NOTICES

23. With effect from 01 October 2015, GPW will not longer accept amendments to notices. The cancellation process will need to be followed according to the deadline and a new notice submitted thereafter for the next available publication date.

REJECTIONS

- 24. All notices not meeting the submission rules will be rejected to the customer to be corrected and resubmitted. Assistance will be available through the Contact Centre should help be required when completing the forms. (012-748 6200 or email <u>info.egazette@gpw.gov.za</u>). Reasons for rejections include the following:
 - 24.1. Incorrectly completed forms and notices submitted in the wrong format, will be rejected.
 - 24.2. Any notice submissions not on the correct Adobe electronic form, will be rejected.
 - 24.3. Any notice submissions not accompanied by the proof of payment / purchase order will be rejected and the notice will not be processed.
 - 24.4. Any submissions or re-submissions that miss the submission cut-off times will be rejected to the customer. The Notice needs to be re-submitted with a new publication date.

APPROVAL OF NOTICES

- 25. Any notices other than legal notices are subject to the approval of the Government Printer, who may refuse acceptance or further publication of any notice.
- 26. No amendments will be accepted in respect to separate notice content that was sent with a Z95 or Z95Prov notice submissions. The copy of notice in layout format (previously known as proof-out) is only provided where requested, for Advertiser to see the notice in final Gazette layout. Should they find that the information submitted was incorrect, they should request for a notice cancellation and resubmit the corrected notice, subject to standard submission deadlines. The cancellation is also subject to the stages in the publishing process, i.e. If cancellation is received when production (printing process) has commenced, then the notice cannot be cancelled.

GOVERNMENT PRINTER INDEMNIFIED AGAINST LIABILITY

- 27. The Government Printer will assume no liability in respect of-
 - 27.1. any delay in the publication of a notice or publication of such notice on any date other than that stipulated by the advertiser;
 - 27.2. erroneous classification of a notice, or the placement of such notice in any section or under any heading other than the section or heading stipulated by the advertiser;
 - 27.3. any editing, revision, omission, typographical errors or errors resulting from faint or indistinct copy.

LIABILITY OF ADVERTISER

28. Advertisers will be held liable for any compensation and costs arising from any action which may be instituted against the Government Printer in consequence of the publication of any notice.

CUSTOMER INQUIRIES

Many of our customers request immediate feedback/confirmation of notice placement in the gazette from our Contact Centre once they have submitted their notice – While **GPW** deems it one of their highest priorities and responsibilities to provide customers with this requested feedback and the best service at all times, we are only able to do so once we have started processing your notice submission.

GPW has a 2-working day turnaround time for processing notices received according to the business rules and deadline submissions.

Please keep this in mind when making inquiries about your notice submission at the Contact Centre.

- 29. Requests for information, quotations and inquiries must be sent to the Contact Centre ONLY.
- 30. Requests for Quotations (RFQs) should be received by the Contact Centre at least **2 working days** before the submission deadline for that specific publication.

PAYMENT OF COST

- 31. The Request for Quotation for placement of the notice should be sent to the Gazette Contact Centre as indicated above, prior to submission of notice for advertising.
- 32. Payment should then be made, or Purchase Order prepared based on the received quotation, prior to the submission of the notice for advertising as these documents i.e. proof of payment or Purchase order will be required as part of the notice submission, as indicated earlier.
- 33. Every proof of payment must have a valid **GPW** quotation number as a reference on the proof of payment document.
- 34. Where there is any doubt about the cost of publication of a notice, and in the case of copy, an enquiry, accompanied by the relevant copy, should be addressed to the Gazette Contact Centre, **Government Printing Works**, Private Bag X85, Pretoria, 0001 email: <u>info.egazette@gpw.gov.za</u> before publication.
- 35. Overpayment resulting from miscalculation on the part of the advertiser of the cost of publication of a notice will not be refunded, unless the advertiser furnishes adequate reasons why such miscalculation occurred. In the event of underpayments, the difference will be recovered from the advertiser, and future notice(s) will not be published until such time as the full cost of such publication has been duly paid in cash or electronic funds transfer into the **Government Printing Works** banking account.
- 36. In the event of a notice being cancelled, a refund will be made only if no cost regarding the placing of the notice has been incurred by the **Government Printing Works**.
- 37. The **Government Printing Works** reserves the right to levy an additional charge in cases where notices, the cost of which has been calculated in accordance with the List of Fixed Tariff Rates, are subsequently found to be excessively lengthy or to contain overmuch or complicated tabulation.

PROOF OF PUBLICATION

- 38. Copies of any of the *Government Gazette* or *Provincial Gazette* can be downloaded from the **Government Printing Works** website <u>www.gpwonline.co.za</u> free of charge, should a proof of publication be required.
- Printed copies may be ordered from the Publications department at the ruling price. The Government Printing Works will assume no liability for any failure to post or for any delay in despatching of such Government Gazette(s)

GOVERNMENT PRINTING WORKS CONTACT INFORMATION

Physical Address:							
Government Printing Works							
149 Bosman Street							
Pretoria							

Postal Address: Private Bag X85 Pretoria 0001

For Gazette and Notice submissions: Gazette Submissions: For queries and quotations, contact: Gazette Contact Centre:

Contact person for subscribers: Mrs M. Toka:

GPW Banking Details:

Bank: ABSA Bosman Street Account No.: 405 7114 016 Branch Code: 632-005

E-mail: <u>submit.egazette@gpw.gov.za</u> E-mail: <u>info.egazette@gpw.gov.za</u> Tel: 012-748 6200

E-mail: subscriptions@gpw.gov.za Tel: 012-748-6066 / 6060 / 6058 Fax: 012-323-9574

GENERAL NOTICES • ALGEMENE KENNISGEWINGS

DEPARTMENT OF AGRICULTURE, LAND REFORM AND RURAL DEVELOPMENT

NOTICE 135 OF 2021

GENERAL NOTICE IN TERMS OF THE RESTITUTION OF LAND RIGHTS ACT, 1994 (ACT No. 22 OF 1994)

Notice is hereby given in terms of Section 11(1) of the Restitution of Land Rights Act, 1994 (Act No. 22 of 1994), as amended. These claims for the restitution of land rights have been submitted to the Regional Land Claims Commissioner for the Western Cape. The particulars regarding these claims are as follows:

Project Name	:	Alexander Family (A521)
Areas	:	Stellenbosch
Property	:	As listed below
The claimant	:	Freda Alexander
Date submitted	:	17 th March 1998
Current Owner	•	Stellenbosch Municipality
Option	:	Financial compensation

No,	Ref No.	Surname & Initial	Prope Descri	rty iption	Area	Exte nt	Capacity	Dispossessed Person
1.	A521	Freda Alexander	Erf Stellen	2576 bosch	Stellenbosch	501m ²	Ownership	J.D Alexander
			Consol	idated				
			to Erf	5138				,
			Stellen	bosch				

The Regional Land Claims Commission will investigate these claims in terms of provisions of the Act in due course. Any party who has an interest in the above-mentioned land is hereby invited to submit, within 60 days from the publication of this notice, any comments / information to:

The Regional Land Claims Commission: Western Cape Private Bag X9163 Cape Town 8000

Tel: 021*409-0300 Fax: 021*424-5146

Mr. L. Maphutha Regional Land Claims Commissioner

APPROVED. DATE... CHECKED DATE

DEPARTMENT OF AGRICULTURE, LAND REFORM AND RURAL DEVELOPMENT

NOTICE 136 OF 2021

GENERAL NOTICE IN TERMS OF THE RESTITUTION OF LAND RIGHTS ACT 1994, (ACT No. 22 OF 1994) AS AMENDED.

Notice is hereby given in terms of Section 11(1) of the Restitution of Land Rights Act, 1994 (Act No. 22 of 1994), as amended. These claims for the restitution of land rights have been submitted to the Regional Land Claims Commissioner for the Western Cape. The particulars regarding this claim are as follow:

Number of Claims	: 6
Area	: District Six
Claimant	: Owners and Tenants
Property/ies	: As listed below
Date Submitted	: 27 October 2020

REF NO	CLAIMANT	PROPERTY DISCRIPTION	CURRENT OWNER
KRK6/2/3/A/1/0/331/1196 (D716)	Zainap Davids	Erf 6101, District Six	City of Cape Town
KRK6/2/3/A/1/0/331/844 (G216)	Roshan Jackobs	Rem of Erf 7596, District Six	Community Development Board
KRK6/2/3/A/1/0/331/1363 (H473)	Nadima Anthony	19 Plymouth Street, (Erf 8988) District Six	Community Development Board
KRK6/2/3/A/1/0/331/170 (J146)	Rukeya Jones	Erf 7327 District Six	City of Cape Town
KRK6/2/3/A/1/0/331/2133 (M195)	Zulfa Arendse	94 Hanover Street (Erf 6681) District Six	City of Cape Town
KRK6/2/3/A/1/0/331/891 (R217)	Osman Rossier	Rem of Erf 7376	Community Development Board

The Regional Land Claims Commission will investigate this claim in terms of provisions of the Act in due course. Any party who has an interest in the above-mentioned land is hereby invited to submit, within 30 days from the publication of this notice, any comments / information to:

The Regional Land Claims Commission: Western Cape Private Bag X9163 Cape Town 8000

Tel: (021)409-0300 (021)418 0205 Fax: CHECKED..... DATE:

APPROVED:... DATE:...

Mr. L. H. Maphutha Regional Land Claims Commissioner

DEPARTMENT OF EMPLOYMENT AND LABOUR

NOTICE 137 OF 2021

LABOUR RELATIONS ACT, 1995

BARGAINING CONCIL FOR THE FURNITURE MANUFACTURING INDUSTRY OF THE WESTERN CAPE: EXTENSION OF PERIOD OF OPERATION OF THE MAIN COLLECTIVE AGREEMENT

I, STEPHEN RATHAI, Director: Collective Bargaining, duly authorised thereto by the Minister of Labour, hereby, in terms of section 32(6)(a)(i) of the Labour Relations Act, 1995, extend the period fixed in Government Notice No R.112 of 12 March 2021 by a further period ending **31** March 2023.

DIRECTOR: COLLECTIVE BARGAINING

UMNYANGO WEZEMISEBENZI NEZABASEBENZI

R.

USUKU:

UMTHETHO WOBUDLELWANO KWEZABASEBENZI KA-1995

BARGAINING CONCIL FOR THE FURNITURE MANUFACTURING INDUSTRY OF THE WESTERN CAPE: UKUVUSELELWA KWESIKHATHI SOKUSEBENZA KWESIVUMELWANO ESIYINGQIKITHI

Mina, **STEPHEN RATHAI**, uMqondisi Wezokuxoxisana phakathi kwabaQashi naBasebenzi, ngegunya likaNgqongqoshe Wezemisebenzi Nezabasebenzi, lapha ngokwesigaba 32(6)(a)(i) soMthetho Wobudlelwano Kwezabasebenzi, ka-1995, ngimemezela ukuthi isikhathi sokusebenza kwesivumelwano esingunywe kwiSaziso sikaHulumeni esingunombolo R.112 womhlaka 12 kuNdasa 2021, sengeziwe ngesikhathi esiphela ngomhlaka **31 kuNdasa 2023.**

UMQONDISI WEZOKUXOXISANA PHAKATHI KWABAQASHI NABAŞEBENZI USUKU: 17103120C

DEPARTMENT OF EMPLOYMENT AND LABOUR

NOTICE 138 OF 2021

Notice published by the Essential Services Committee ('the Committee') in terms of section 71, read with section 70(2)(a) of the Labour Relations Act, 1995 (Act No 66 of 1995 as amended)

- A. Notice is hereby given in terms of Section 71(9) for an investigation on the possible variation of the following designations rendered by the Committee on:
 - 1. 11 May 2018, under GN 41621: The designation made, rendering certain nuclear services as essential; and
 - The designation made, rendering certain services in private health as essential (only in so far as Optometry is concerned).
- B. Notice is hereby given that the Committee will hear oral representations as follows:
 - (i) Date: 22 March 2021 in Johannesburg
 Venue: CCMA Offices, 28 Harrison Street, 10th floor
 Sector: Nuclear Services @ 11:00
 Private Health Services @ 13:00
 - (ii) Date: 23 March 2021 in Durban
 Venue: CCMA Offices, 275 Anton Lembede Street, Embassy House
 Sector: Nuclear Services @ 11:00
 Private Health Services @ 13:00
 - (iii) Date: 25 March 2021 in Cape Town
 Venue: CCMA Offices, 78 Darling Street
 Sector: Nuclear Services @ 11:00
 Private Health Services @ 13:00
 - (iv) Date: 29 March 2021 in Bloemfontein
 Venue: CCMA House, Cnr Elizabeth & West Burger Streets
 Sector: Nuclear Services @ 11:00
 Private Health Services @ 13:00
 - (v) Date: 31 March 2021 in Port Elizabeth
 - Venue: CCMA Offices, 97 Govan Mbeki Avenue
 - Sector: Nuclear Services @ 11:00
 - Private Health Services @ 13:00

D. Any interested party requiring an opportunity to make oral representations must:

- Indicate its intention to do so, in writing, to the ESC on or before 22 March 2021 (to either SibusisoL@CCMA.org.za or to fax: 086 660 6132);
- (ii) State the nature of the interest in the investigation;
- (iii) State whether it relies or intends to rely on any expert evidence, and if so, provide a brief summary of that expert evidence; and
- (iv) Specify its address, telephone and telefax numbers and e-mail contact address.

For all Inquiries, please contact Sibusiso Lukhele on SibusisoL@CCMA.org.za



DEPARTMENT OF HEALTH

NOTICE 139 OF 2021

MEDICINES AND RELATED SUBSTANCES ACT, (ACT NO. 101 OF 1965)

REGULATIONS RELATING TO A TRANSPARENT PRICING SYSTEM FOR MEDICINES AND SCHEDULED SUBSTANCES

(DISPENSING FEE TO BE CHARGED BY PERSONS LICENSED IN TERMS OF SECTION 22C (1) (a))

The Minister of Health has, on the recommendation of the Pricing Committee, in terms of Section 22G of the Medicine and Related Substances Act, 1965 (Act No. 101 of 1965) as amended, made the regulations in the schedule.

SCHEDULE

Definitions

1. In these regulations any word or expression to which a meaning has been assigned in the Act shall have such meaning and, unless the context indicates otherwise-

"the Regulations" means the Regulations Relating to the Transparent Pricing System for Medicines and Scheduled Substances published under government Notice No. R1102 of November 2005 as amended.

Substitution of Regulation 12

2. The following regulation is hereby substituted for regulation 12 of the regulations:

"12. The appropriate dispensing fee as contemplated in section 22G of the Act to be charged by persons licensed in terms of section 22C (1) (a) of the Act must be calculated, exclusive of VAT, as follows:

- (a) Where the single exit price of a medicine or scheduled substance is less than one hundred and thirty rand (R130.00), the dispensing fee must not exceed 30% of the single exit price in respect of that medicine or scheduled substance;
- (b) Where the single exit price of a medicine or scheduled substance is equal to or greater than one hundred and thirty rand (R130.00), the dispensing fee must not exceed thirty nine rand (R39.00) in respect of that medicine or scheduled substance;
- The provisions of sub-regulation 2 must be reviewed annually by the Minister after taking into account-
 - (a) the need to ensure the availability and affordability of quality medicines and scheduled substances in the Republic;
 - (b) annual inflation rates published periodically by Statistics South Africa;
 - (c) information supplied by persons licensed to dispense in terms of section 22C (1)(a) in accordance with guidelines determined by the Minister from time to time by Notice in the Gazette; and
 - (d) any other information the Minister may deem necessary to consider.

- 4. Persons Licensed to dispense in terms of section 22C (1) (a) must-
 - (a) by means of a clearly displayed notice in the dispensing practice, inform members of the public using the dispensing practice of the maximum fee structure used by such dispensing practice to determine the dispensing fee; and
 - (b) provide an invoice that in respect of each medicine clearly indicates the-
 - (i) dispensing fee charged; and
 - (ii) the single exit price;

Sorthhas

DR ZL MKHIZE, MP MINISTER OF HEALTH DATE: 26 01 2021

DEPARTMENT OF JUSTICE AND CONSTITUTIONAL DEVELOPMENT

NOTICE 140 OF 2021

A. INVITATION FOR PUBLIC COMMENTS ON AMENDMENTS TO THE PROMOTION OF EQUALITY AND PREVENTION OF UNFAIR DISCRIMINATION ACT, 2000

1. INVITATION

- 1.1 The Department of Justice and Constitutional Development (the Department) invites interested parties to submit written comments on the proposed amendments to the Promotion of Equality and the Prevention of Unfair Discrimination Act, 2000 (Act No. 4 of 2000) (the Act). The proposed amendments to the Act, the invitation and a note explaining the background of the proposed amendments, are available on the website of the Department at the following address: https://www.justice.gov.za/legislation/invitations/invites.htm
- 1.2 The comments on the proposed amendments to the Act must be submitted not later than **30 working days after the date of publication of this invitation**, marked for the attention of **Ms F Bhayat**, and
 - (a) if they are forwarded by post, be addressed to The Director-General: Justice and Constitutional Development Private Bag X81
 Pretoria
 0001
 - (b) if they are delivered by hand, be delivered at –
 SALU Building, Room 23.23
 316 Thabo Sehume Street
 Pretoria
 - (c) if they are delivered by email, be emailed to: <u>fbhayat@justice.gov.za</u>
 - (d) if they are faxed, be faxed to **086 754 8493**.
- 1.3 For further information, please do not hesitate to contact **Dr I Botha** on **012 406 4756**.

B. BACKGROUND NOTE

2.1 The purpose of the Promotion of Equality and Prevention of Unfair Discrimination Amendment Bill, 2021 ("the Bill") is to address certain problems that have been identified with the Promotion of Equality and Prevention of Unfair Discrimination Act, 2000 (Act No. 4 of 2000) (the Act), following a review process of the Act.

2.2 The first part of the Act, which deals with, among others, **the prevention of equality** through the equality courts in which complaints about discrimination are adjudicated. These sections are in operation and a few amendments are proposed in the Bill to improve the protection of complainants.

2.3 The second part of the Act, which deals with **the promotion of equality** by Organs of State and public and private bodies, is not yet in operation. This is due, in part, to the regulatory burden on placed on all sectors of society, both public and private. This was identified in a Regulatory Impact Assessment conducted by the National Treasury. The Bill intends to address these challenges.

2.4. The aims of the Bill are the following:

2.4.1 PREVENTION OF UNFAIR DISCRIMINATION

The first part of the Bill (**clauses 1 to 3**) aims to improve the protection of complainants against discrimination. This is done as follows:

- (a) Broadening and amending the scope of the definitions of:
 - (i) "equality" by indicating that it includes equal rights and access to resources, opportunities, benefits and advantages; and
 - (ii) "discrimination" by indicating that intention to discriminate is not required. It is the effect that matters and this makes it easier for complainants to make out a case of discrimination.
- (b) Amending section 6 of the Act, (which contains the general prohibition of unfair discrimination), by adding two new subsections as follows:

- (i) The scope of the prohibition of unfair discrimination is extended to any person who causes, encourages or requests another person to discriminate against others. This enables legal proceedings against such a person.
- (ii) Provision is made in the Bill for joint and several liability which entails that both the employer and the employee can be held liable for discrimination.
- (c) Inserting section 9A in the Act to prohibit retaliation against a person who exercised his or her remedies in terms of the Act.

2.4.2 PROMOTION OF EQUALITY

The second part of the Bill (clauses 4 to 9) seeks to do the following:

- (a) Clarify and reduce certain duties relating to the promotion of equality of the State and public bodies to some extent, for example by not requiring municipalities to provide assistance, advice and training on issues of equality so that they can focus on their main mandate namely municipal service delivery to the people.
- (b) An integrated approach is followed by making use of existing financial reporting and monitoring mechanisms provided for in the PFMA and the Local Government Municipal Systems Act, 2000 (Act) 32 of 2000) to ensure proper planning, budgeting and reporting on measures implemented to promote equality by Organs of State and public bodies falling under the ambit of these Acts. State departments (national and provincial), municipalities and certain public bodies will in terms of the Bill have to provide certain information in their strategic, corporate and business plans instead of having to prepare and develop additional and separate equality plans and action plans as required by the Act.
- (c) Strengthen accountability for the implementation of measures aimed at promoting equality by ensuring that Annual Reports of Organs of State contain information on what they have done in this regard.
- (d) To enhance co-ordination and prevent overlapping actions and duties, a Minister must, before issuing regulations and codes of practice or charters, have regard to other measures aimed at promoting equality which are already in place before

additional duties are conferred upon bodies. For this purpose, the Department of Justice and Constitutional Development must make available on its website a list of all the Codes issued by the Ministers.

(e) To strengthen enforcement of the provisions of the Act, the Bill now criminalises the wilful submission of false information by any person.

DEPARTMENT OF JUSTICE AND CONSTITUTIONAL DEVELOPMENT

NOTICE 141 OF 2021

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No. 44333 29

GOVERNMENT NOTICES • GOEWERMENTSKENNISGEWINGS

DEPARTMENT OF AGRICULTURE, LAND REFORM AND RURAL DEVELOPMENT

NO. 258

26 March 2021

PAYMENT PROCEDURES FOR IMPORT AND EXPORT PERMITS UNDER THE ECONOMIC PARTNERSHIP AGREEMENT (EPA), WORLD TRADE ORGANIZATION AGREEMENT (WTO) AND AFRICAN GROWTH OPPORTUNITY ACT AGREEMENT (AGOA) FOR THE YEAR 2021

FEES FOR THE DALRRD QUOTA ALLOCATION OF IMPORT AND EXPORT PERMITS

A fee of R1 480.00 per permit will be payable for permit and replacement permits issued from the 01 April 2021.

All application forms should be accompanied by proof of payment (bank deposit slip or cashier receipt).

Payment is to be made as follows:

Payment to Department of Agriculture, Land Reform and Rural Development bank account Bank: Standard Bank Branch: Arcadia Branch No: 01-08-45 Account No.: 013024175 Account Name: NDA: Marketing Administration-Trade Incentives

OR

Payment in cash: Department of Agriculture, Land Reform and Rural Development bank, Pretoria Agricultural Place, 20 Steve Biko Drive, Arcadia, Block S: Room GF 14

Payment must be made per application period and no payments should be made in advance for another period.

There will be no refunds to applicants who pay more than the stipulated permit fee and those who submit incomplete application.

MR M. RAMASODI ACTING DIRECTOR-GENERAL

DEPARTMENT OF AGRICULTURE, LAND REFORM AND RURAL DEVELOPMENT

NO. 259

26 March 2021

ANIMAL IDENTIFICATION ACT, 2002 (ACT No. 6 OF 2002)

REGULATIONS: AMENDMENT

The Minister of Agriculture, Forestry and Fisheries, acting under section 18(1)(f) of the Animal Identification Act, 2002 (Act No. 6 of 2002), made the regulations in the Schedule.

SCHEDULE

Definitions

1. In this Schedule "the Regulations" means the Regulations published by Government Notice No. R 209 of 10 March 2006.

Substitution of Table 1 of the Regulations

2. The table in the Annexure is hereby substituted for Table 1 of the Regulations.

TABLE 1

FEES PAYABLE

Purpose	Amount payable per application
1. Registration of an animal identification mark (Reg. 3(2))	R170 per application
2. Transfer of the registration of an animal identification mark (Reg.6(2))	R170 per application
3. Copy of animal identification certificate	R170 per application
 Application for duties of pound master in terms of section 14 of the Act (Reg. 8(1)) 	R170 per application
5. Application for registration as marking operator (Reg. 7(2))	R170 per application
6. Registered post (optional)	Determined by service provider

DEPARTMENT OF SPORTS, ARTS AND CULTURE

NO. 260

26 March 2021

NOTICE IN TERMS OF THE PUBLICATION OF ENGLISH-ISIZULU ENGINEERING AND CONSTRUCTION TERM LIST FOR PUBLIC COMMENTS

I, Nkosinathi Emmanuel Mthethwa, Minister of Sport, Arts and Culture hereby publish the English-isiZulu Engineering and Construction Term List for public comments.

NE Mthethwa, MP Minister of Sport, Arts and Culture Date: 2-02-03-12



Α

absorption field {plumbing}

A system of trenches containing coarse aggregate and distribution pipes through which septic-tank effluent may seep into the surrounding soil.

Source definition: www.thefreedictionary.com

isiZulu indawo yokumunca inkucunkucu

abutment {retaining wall}

A concrete support wall constructed at both ends of a bridge or an arch, in order to resist the horizontal force from the bridge or the arch, support the ends of the bridge span and to prevent the bank from sliding under.

Source definition: Definitions of Civil Engineering Terms (1992)

isiZulu i-abhutimenti

isiZulu udonga oluyinsika yebhuloho

access chamber

An underground chamber enabling access to drains or underground services.

Source definition: Aleckassociates.co.uk amended

isiZulu intuba yokungena

acrow prop {temporary support}

A telescopic prop much used as a temporary support in construction.

Source definition: Aleck associates Ltd.

śiZulu insika yokusekela isikhashana

actuator

A component of machines that is responsible for moving or controlling a mechanism or system.

Source definition: https://enwekipedia.org

isiZulu i-actuator

aerospace engineering

The primary field of engineering concerned with the development of aircraft and spacecraft.

Source definition: Wikipedia.com

isiZulu ubunjiniyela bezindizamshini

aggregate {concrete}

A broad category of coarse particulate material used in construction, including sand, gravel, crushed stone, slag, recycled concrete and geosynthetic aggregates.

Source definition: www.wikipedia

isiZulu inhlanganisela eqinisa ezokwakha isiZulu umumo ophelele

agriculural engineering

The area of engineering concerned with the design, construction and improvement of farming equipment and machinery.

Source definition: Environmentalscience.org adapted

isiZulu ubunjiniyela bemisebenzi yezolimo

isiZulu ubunjiniyela ngezolimo

airbrick

A special type of brick that has small holes in it that allow air to go through a wall.

Source definition: Cambridge English Dictionary.org

isiZulu isitini esingenisa umoya

air-condioner condenser

A device or unit used to condense a substance from its gaseous to its liquid state, by cooling it.

Source definition: Wikipedia.org adapted

isiZulu isijiyisi sokuguqulwa komoya endlini isiZulu isijiyisi sokulinganiswakomoya endlini

airconditioning

A system for controlling the humidity, ventilation, and temperature in a building or a vehicle.

Source definition: Concise Oxford English Dictionary

isiZulu	ukuhlelwa komoya
isiZulu	ukulawulwa komoya
isiZulu	ukulinganisa ubunialo bomova endlini
isiZulu	ukulinganiswa komoya endlini

aircrete

A lightweight aerated cement-based material from which easily handled high insulating building blocks are made.

Source definition: Aleck associates Ltd

isiZulu ukhonkolo

air duct

A pipe or channel permitting air to travel through a system, building, or other structure, such as a mine.

Source definition: Collinsdictionary.com

isiZulu ipayipi yomoya

air-entrained concrete (complex compound noun)

A concrete used for constructing roads which has about 5% air and is therefore less dense than ordinary good concrete, but it has excellent freeze-thaw resistance.

Source definition: Definitions of Definitions of Civil Engineering Terms (1992)

isiZulu ukhonkololokwakhaumgwaqo

alcove

A small area in a room that is created by building part of one wall further back than the rest of the wall.

Source definition: Macmillan English Dictionary

isiZulu	ikhoselaekamelweni
isiZulu	ikhosela endlini
isiZulu	igosi elakhiwe odongeni

anchor {for stability}

Any fastener (usually metal) used to attach parts, such as joists, trusses, posts, etc., to masonry or masonry materials.

Source definition: Beaufortonline.com

isiZulu	isankora
isiZulu	ihange

ant cap

A termite barrier (shield), usually of galvanised iron, placed over piers and dwarf walls to control the entry of termites.

Source definition: Construction Dictionary of Building Terms

isiZulu isivimbeli ntuthwane

applied engineering

The field concerned with the application of management, design, and technical skills for the design and integration of systems, the execution of new product designs, the improvement of manufacturing processes, and the management and direction of physical and/or technical functions of a firm or organisation.

Source definition: Wikipedia.org

isiZulu	ubunjiniyela	bokuqondisa
isiZulu	ubunjiniyela	bokusentshenziswa

arcade

A covered passage at the side of a building.

Source definition: Macmillan English Dictionary

isiZulu	imbubhe
isiZulu	isakhiwo esinegobela
isiZulu	i-akheyidi
No. 44333 37

architect umdwebizakhiwo

Someone who plans, designs, and reviews the construction of buildings. Source

definition: Wikipedia

isiZulu	umdwebizakhiwo
siZulu	isazi sokwakha
isiZulu	umgambi wemumo wendlu
isiZulu	umklami wokwakhiwa kwezindlu

architectural engineering

The branch of engineering that deals with the construction of buildings (as distinguished from architecture as a design art).

Source definition: Thefreedictionary.com

isiZulu	ubunjiniyela bokwakhiwa kwezIndu
isiZulu	ubunjiniyela bokumiswa kwezakhiwo zezIndlu
isiZulu	ubunjiniyela boklama

architecture

The art of planning, designing, and constructing buildings.

Source definition: Collinsdictionary.com adapted

isiZulu indlela yokhwakha

isiZulu ukwakhiwa kwezindu

isiZulu ukumiswa kwezakhwo

architrave

A frame around a doorway or window.

Source definition: Concise Oxford English Dictionary

isZulu umhlobisonsika

isiZulu	ukuhlobisa ngamapulwangwa	e okuzungeza umyango
isiZulu	ukuhlobisa ngamapulangwe	okuzungeza ifasitela

areaway

A sunken space affording access, air, and light to a basement.

Source definition: Mariam-Webster.com

isiZulu indawo embelekile isiZulu indawo eyisigobe

area well

The space created by a corrugated metal or concrete barrier walls installed around a basement window to back the earth.

Source definition: Homewyse.com adapted

isiZulu i-eriyaweli

arris

A sharp edge formed when two planes or surfaces meet. Synonym **arris edge**

Source definition: Beaufortline.com

isZulu i-arisi

arris edge \rightarrow arris

as-built drawing

A construction drawing revised to show significant changes made during the construction process, usually based on marked-up prints, drawings and other data furnished by the contractor or the engineer.

Source definition: Definitions of Definitions of Civil Engineering Terms (1992)

isiZulu ukubuyekezwa komdwebosakhiwo isiZulu ukubuyekezwa kweplani yesakhiwo

ashpit

A receptacle in the bottom of a fireplace, or the like, for the accumulation of ashes.

Source definition: Dictionary.com

isiZulu	isifoco somlotha
isiZulu	umgodi womlotha
isiZulu	isikhoxe somlotha

astragal

An applied moulding attached most commonly to the meeting edge of doors.

Source definition: Allegion

isiZulu	isihlanganisimagilasi esivundlile
isiZulu	isihlanganisimagilasi esiqumile
isiZulu	i-astragali

atrium

A large open hall that goes up through all the levels of a building to the roof, which is usually made of glass.

This gazette is also available free online at www.gpwonline.co.za

Source definition: Macmillan English Dictionary

isiZulu i-athriyamu

attic

A space found directly below the pitched roof of a house or other building.

Source definition: Wikipedia adapted

isiZulu	i-athiki
isiZulu	igumbimkhathi
isiZulu	igumbi eliphezulu endlini

autonomous vehicle {electrical engineering}

A motor vehicle that uses artificial intelligence, sensors and global positioning system coordinates to drive itself without the active intervention of a human operator.

Source definition: Wikipedia.org.adapted

isZulu imoto ezihambelayo

awning window

A window consisting of several top-hinged sections arranged in a vertical series, operated by one or more control devices that swing the bottom edges of the sections outward, and designed especially to admit air while excluding rain.

Source definition: Meriam-Webster.com

isZulu	ifasitela lokusitha ilanga
isiZulu	iwindi lokusitha ilanga

axed arch

An arch made of bricks that have been roughly cut into a wedge shape.

Source definition: Thesciencedictionary.org

isZulu igobela

В

back siphonage

The backward flow of used, contaminated, or polluted water from a plumbing fixture or vessel into the potable water supply, often due to negative pressure in a pipe.

Source definition: www.dictionaryof construction.com

isZulu umbhobho wukomunca amanzi emuva isiZulu umbhobho wokuthelelela emuva kwamanzi

back vent {plumbing}

A ventilating pipe attached to a waste pipe on the sewer side of its trap to prevent siphonage.

Source definition: Meriam-Webster.com

isiZulu ipayipi yokungenisa umoya

balcony

A deck projecting from the wall of a building above ground level.

Source definition: Beaufortline.com

isZulu uvulande ophezulu Synonym uvulande osesitezi

balloon framed wall complex

The structure of the building holding up the walls, floors, and roof.

Source definition: Study.com

isiZulu udonga oluyibhaluni isiZulu ubonda oluyibhaluni

baluster

A short pillar forming part of a series supporting a rail or coping.

Source definition: Concise Oxford English Dictionary

isiZulu ibhalusta

isiZulu	belusithe
isiZulu	belusitha

balustrade

A rail and the row of balusters or posts that support it, as along the front of a gallery.

isiZulu ibhalustredi

isiZulu	sibambelelo sokuzivikela nokuzisiza esitezi
Synonym	isibambelelo esakhiwe esitezl sokuzivikela ukuwa

banister {stairway}

A handrail with supporting posts used alongside a stairway.

Synonym **bannister**

isiZulu isibambelelosokuvimbelaabantu bangawi esitezi isiZulu ibhanista

banrister \rightarrow banister

barge {support}

One of the sloping pieces of wood that supports a roof.

Source definition: Collins English Dictionary.com

isiZulu isikhoco sendlu

isiZulu **ibhaji**

barge board

A board which hangs from the projecting end of a roof, covering the gables; often elaborately carved and ornamented in the Middle Ages.

Source definition: ThoughtCo.com

isiZulu uqwembe lwesikhoco sendlu

baseboard

A trim board placed against the wall around the room next to the floor. Synonym **skirting**

Source definition: Homebuildingmanual.com

isiZulu **isikeyiti**

basecourse

The bottom layer of material laid down in the construction of a pavement.

Source definition: Definitions of Civil Engineering Terms (1992)

isiZulu isandlalelo sesisekelo

base shoe {flooring}

A narrow moulding often of quarter round joining the bottom of a baseboard and the floor.

Source definition: Meriam-Webster.com

isiZulu umhlobiso wendawo yaphansi isiZulu isisekelo sendawu yaphansi

bat {*brick*}

A brick cut transversely so as to leave one end whole.

Source definition: Dictionary.com

isiZulu ibhathi

batt {*fibreglass*} *A piece of fibreglass used to insulate buildings.*

Source definition: Google.com

isZulu ibheti

batten {wood}

A long strip of wood that is fixed to something to strengthen it or to hold it firm.

Source definition: Collins Cobuild English Dictionary adapted

isiZulu	ithandela
isiZulu	ibhathini
isiZulu	isikhonkhwane sokukhonkhotela

batter {wall}

An inward slope from bottom to top of a wall face.

Source definition: Definitions of Civil Engineering Terms (1992)

isiZulu	ibhatha
isiZulu	utsheku
isiZulu	ukwehlela kophahla
isiZulu	ukutshekela kophahla
isiZulu	udonga lokutsheka
isiZulu	ubondalokutsheka

bay window

A window built to project outwards from an outside wall.

Source definition: Google.com

isiZulu	iwindi eliphumela ngaphandle
isiZulu	ifasitela eliphumela ngaphandle
isiZulu	iwindiqhunsu
isiZulu	ifasitelaqhunsu

beam {support}

A long thick bar of wood, metal, or concrete, especially one used to support the roof of a building.

Source definition: www.wikipedia.com

isiZulu umshayo isiZulu umjanjatho isiZulu ibhumu

bearing wall

A wall that bears the weight of the house above said wall, resting upon it by conducting its weight to a foundation structure.

Source definition: Wikipedia

isiZulu	udonga oluyisisekelo
isiZulu	ubonda oluyisisekelo

berm

An artificially placed continuous ridge or bank of earth, usually along a roadside.

Source definition: www.Dictionary of Construction Terminology

isiZulu	udonga
isiZulu	unqenqema
isiZulu	ukhalo

bevel {*instrument*}

An instrument consisting of two rules or arms jointed together and opening to any angle for drawing angles or adjusting surfaces to be cut at an angle.

Source definition: Meriam-Webster.com

isiZulu ibheveli isZulu isikwele ibheveli

bifolddoor

A door that slides open, made from a series of panels that fold up against the wall like a concertina.

Source definition: vibrantdoors.co.uk

isiZulu umyango osongayo

billet

Each of a series of short cylindrical pieces inserted at intervals in Norman decorative mouldings.

Source definition: Concise Oxford English Dictionary

isiZulu	itiyela
isiZulu	ibhilethi

bitumen

A black, sticky substance such as tar or asphalt, used for making roads and roofs.

Source definition: Dictionary.cambridge.org

isiZulu itiyela isiZulu isitafutafu esimnyama esakha umgqwaqo

bleeding {concrete}

A form of segregation where some of the water in the concrete tends to rise to the surface of the freshly placed material.

Source definition: www.concrete.org.uk

isZulu ukucwenga kwe khonkolo isZulu ukwahlukaniswa kwe khonkolo

blinding {layer of concrete}

A layer of lean concrete usually 2 to 4 inches thick, put down on soil such as clay to seal it and provide a clean bed for reinforcement to be laid on.

Source definition: Definitions of Civil Engineering Terms (1992)

isiZulu ikhebakheba

blind nailing

A type of nailing performed so that the nailhead cannot be seen on the face of the work.

Source definition: Dictionary of Construction Terminology

isiZulu umfutho ovaliwe isiZulu ukushayela okuvaliwe

block

A small wooden piece to brace framing members or to provide a nailing base for gypsum board or paneling.

Source definition: Homebuildingmanual.com

isiZulu ibhloko isiZulu ibhlokwe

block out <n.>

A space where concrete is not to be placed, in a concrete structure which is under construction.

Source definition: Thefreedictionary.com adapted

This gazette is also available free online at www.gpwonline.co.za

isiZulu indawo engafu ni ikhonkolo isiZulu indawu engathel wa ikhonkolo

blotter

A drilling into earth to bring up samples of the soil.

Source definition: Definitions of Civil Engineering Terms (1992)

isiZulu ibhulota isiZulu i-blotter

blueprint <n.>

A reproduction of a technical drawing, documenting an architecture or an engineering design, using a contact print process on light-sensitive sheets.

Source definition: Wikipedia

isiZulu isifanekisosentoezokwakhiwa isiZulu isifanekiso somshini

blue staking <n.>

The act of marking underground facilities such as electric, gas, water, telephone, cable or other underground facilities so that these networks are not damaged during excavation, trenching or digging activities.

Source definition: Arizona Corporation Commission

isZulu isigxobo isZulu isikhonkwane

bonnet roof

A roof having a double slope on all four sides, the lower slope being less steep than the upper slope; often extends over an open-sided raised porch to provide excellent shade for the house and protection against rain.

Source definition: Thefreedictionary.com

isiZulu uphahla lobhonethi

boom {mounted on e.g. a truck, vehicle} A truck used to hoist heavy material up and into place.

Source definition: Homebuildingmanual.com

isiZulu ugongolo olwakhelwe ukuvala indlela

boom {access control}

A bar, or pole pivoted to allow the boom to block vehicular access through a controlled point.

Source definition: Wikipedia

isiZulu ugongolo olwakhelwe ukuvalaindela

bottom pate

The horizontal beam on which the studs of a partition rest.

Source definition: Meriam-Webster.com

isiZulu **ibhimu evundlayo** isiZulu **ibhimu enqamulayo**

bowstring truss

A structural truss consisting of a curved top chord meeting a bottom chord at each end.

Source definition: Dictionary.com

isiZulu **uphahla lemichilo**

breaker panel

A steel box that holds multiple circuit breakers wired to circuits that distribute power throughout one's home.

Source definition: HomeDepot.com

isiZulu bhokisi lukagesi

brick guard

A steel mesh panel used on scaffolding to make sure that loose bricks cannot fall off the scaffold.

Source definition: Aleck Associates Ltd. amended

isiZulu isivimbeli sesitini

brick ledge

The portion of a foundation wall where brick (veneer) rests.

Source definition: Dictionary of Construction Terminology

isZulu ishalafu lwesitini

isiZulu ileji lwesitini

brick lintel

The angle that brick rests on, especially above a window, door, or other opening.

Source definition: Honmebuildingmanual.com

isiZulu ilenteli

brick mould

A strip of material used to close the small gap between a brick wall and the frame of a door or window set into the wall.

Source definition: www.wisegeek.com

isiZulu **i-brickmould**

brick mould

A templet (used by a bricklayer, plasterer, in masonry, etc.) into which a liquid substance is cast or pressed and allowed to cool or harden so as to take a particular shape or pattern.

Source definition: Shorter Oxford English Dictionary

isZulu ifolomo yezitini

brick tie

A small architectural element that is used to connect two brick walls across a narrow cavity or to bind a brick wall to a wood or steel frame.

Sourcedefinition: www.wisegeek.com

isiZulu isiqinisa ubonda isiZulu isiqinisa udonga

bridge

A structure that is built over a river, road, or railway to allow people and vehicles to cross from one side to the other.

Source definition: Dictionary.cambridge.org

isiZulu **ibhuluho**

bridge deck

The load-bearing floor of a bridge that carries and spreads the loads to the main beams.

Source definition: Definitions of Civil Engineering Terms (1992)

isiZulu itafula lebhuloho

bridging {stability and load distribution}

A method of lateral bracing between joists for stiffness, stability, and load distribution.

Source definition: Dictionary of Construction Terminology

isiZulu **ukuqinisa**

buck {subframe}

The wood or metal subframe of a door, installed in a wall to accommodate the finished frame.

Source definition: Dictionary of Construction Terminology

isiZulu uphahla oluncane isiZulu ifulemu elincane

building code

Municipal regulations that set forth standards and requirements for construction, maintenance, and occupancy of buildings in the interest of health, safety, and welfare of the public.

Source definition: BusinessDictionary.com

isiZulu imithetho yezokwakha

building paper

A heavy paper used especially in the construction of frame buildings to block draughts, for insulation, etc.

Source definition: www.dictionary.com

isiZulu iphepha lokwakha

built-up roof

A usually flat or slightly sloped roof that is covered with a special material applied in sealed, waterproof layers.

Source definition: www.dictionary.com

isiZulu uphahla oluphakameyo

butterfly roof

A roof having more than one slope, each descending inward from the eaves.

Source definition: www.dictionary.com

isiZulu uphahla i-butterfly

buttjoint

A joint formed by two pieces of wood or metal united end to end without overlapping.

Source definition: www.dictionary.com

isiZulu ukuhlangana okuthingquphu

buttress {reinforcement}

An architectural structure built against or projecting from a wall which serves to support or reinforce the wall.

Source definition: www.wikipedia.com

isiZulu **umthangala** isiZulu **insika eqinisayo**

buttress → counterfort

bypass {road}

A road or highway that avoids or "bypasses" a built-up area, town, or village, to let through traffic flow without interference from local traffic, to reduce congestion in the built-up area, and to improve road safety.

Source definition: en.wikipedia.org

isiZulu indlela edlula eceleni isiZulu indlela enqamulayoeceleni

bypass doors

Doors that slide by each other and commonly used as closet doors.

Source definition: Homebuildingmanual.com

isZulu imnyango eshelelezayo

С

 $CAD \rightarrow$ computer-aided design

caisson {a watertight retaining structure}

A watertight boxlike structure or chamber, made of wood, steel, or concrete usually sunk excavating within it, for the purpose of gaining access to bed of a stream and placing the foundations at prescribed depth and which subsequently forms part of the foundation itself.

Source definition: Theconstructioncivil.org

isiZulu ibhokisi umuntu asebenzela kulo phansi kwamanzi

camber {arched surface}

A slightly arched surface of a road to compensate for anticipated deflection or to allow for drainage.

Source definition: Definitions of Civil Engineering Terms (1992)

isiZulu ukuphakama komgwaqo

cantilever {beam}

A beam which is securely supported at one end, and hangs freely at the other.

Source definition: Definitions of Civil Engineering Terms (1992)

- isiZulu insika elengayo isiZulu ibhimu elengayo
- **cased window** \rightarrow sash window

casement

A window sash opening on hinges that are generally attached to the upright side of its frame. Synonym **casement window**

Source definition: www.dictionary.com

- isiZulu iwindi elivukele eceleni
- isiZulu ifasitela elivulekele eceleni
- isiZulu iwindi lekheyisimente
- isiZulu ifasitela lekheyisimente

casement window → casement

cast-in-place <adj.>

That is to be assembled or cast on site rather than prefabricated in a factory, e.g. a beam, a pile or other construction material. Synonym cast-in-situ

Source definition: Quora.com amended

isiZulu ehlanganiswa endaweni yokwakha

cast-in-situ → cast-in-place

caulking {sealing}

The processes and material (also called sealant) to seal joints or seams in various structures and some types of piping.

Source definition: Wikipedia.org

isiZulu ukunamathelisa isZulu ukugcwalisa imiveve ngetiyela

cavity wall

A wall that consists of two separate walls with a space between them.

Source definition: Collins English Dictionary

isiZulu ubonda elinombhobho isiZulu undonga elinombhobho

ceiling

An overhead interior surface that covers the upper limits of a room.

Source definition: Wikipedia adapted

isiZulu isilingi

celotex {fibrous board}

A black fibrous board that is used as exterior sheathing.

Source definition: Dictionary of Construction Terminology

isiZulu iselotheksi

cement mortar

A workable paste used to bind building blocks such as stones, bricks, and concrete masonry units together, fill and seal the irregular gaps between them, and sometimes add decorative colours or patterns in masonry walls.

Source definition: Wikipedia.org

isiZulu udaka

ceramic tile

A tile made from clay that has been permanently hardened by heat, often having a decorative glaze.

Source definition: Google.com

isiZulu ithayela iseramikhi

cesspipe → soilpipe

chase

A groove or space in walls or through floors of a building for piping or ducts.

Source definition: Wikipedia

isiZulu umsele wombhobho

chemical engineering

The branch of engineering concerned with the design and operation of industrial chemical plants.

Source definition: Concise Oxford English Dictionary

isiZulu ubunjiniyela bekhemikhali

chipboard

A building material made from wood chips compressed and bound with synthetic resin. Source

definition: www.yourdictionary.com

isiZulu **ibhodi** isiZulu **ipulangwe yezwibela**

civilengineering

A professional engineering discipline that deals with the design, construction, and maintenance of the physical and naturally built environment, including works like roads, bridges, canals, dams, airports, sewerage systems, pipelines and railways.

Source definition: Wikipedia.org

isiZulu ubunjiniyela bezokhwaka

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cladding

The separately applied exterior finish of a framed building.

Source definition: Aleck Associates Ltd

isiZulu	ukugqokisa
isiZulu	ukwembesa

clamp→ cramp

clerestory

A large window or series of small windows along the top of a structure's wall, usually at or near the roof line.

Source definition: Thoughtco.com adapted

isiZulu iklerestori

clerestory roof

A roof with a vertical wall which sits between the two sloping sides, which features a row of windows.

Source definition: www.build.com adapted

isiZulu uphahla loklerestori

coastal engineering

The study of the processes ongoing at the shoreline and construction within the coastal zone.

Source definition: Coastal.udel.edu adapted

isiZulu ubunjiniyela bogu isiZulu ubunjiniyela basegwini

collapsible door

A door which can be opened or closed by slight pull orpush.

Source definition: https://gharpedia.com adapted

isiZulu	umyango	obocozekayo
isiZulu	umyango	osongekayo

collar {roof}

A preformed flange placed over a vent pipe to seal the roofing above the vent pipe

opening.

Source definition: Homebuildingmanual.com amended

isiZulu isivimbela ukuvuza

compaction {construction material}

The elimination of voids in construction materials, as in concrete, plaster, or soil, by vibration, tamping, rolling, or some other method or combination of methods.

Source definition: Dictionary of Construction Terminology

isiZulu **ukugingqika ukugoqeka** isiZulu

computer-aided design

A computer technology that designs a product and documents the design's process. Acronym **CAD**

Source definition: www.techopedia.com

isiZulu ukuklama ngekhompyutha

computer engineering

A discipline that integrates several fields of electrical engineering and computer science required to develop computer hardware and software.

Source definition: Wikipedia.org adapted

isZulu ubunjiniyela bezekhompyutha

concrete

A heavy, rough building material made from a mixture of broken stone or gravel, sand, cement, and water.

Source definition: Google.com

isiZulu ukhonkolo isiZulu usemende

concrete pump

A piece of construction equipment designed to pump concrete through a hose, originating from a pump mounted on a truck or trailer.

Source definition: Construction & Home Renovation Glossary.com

This gazette is also available free online at www.gpwonline.co.za

isiZulu isifutho sekhonkolo isZulu iphampu

conduit

A pipe used to protect wiring or another venerable construction product or component.

Source definition: Construction & Home Renovation Glossary.com

isiZulu umbhobhowecingolukagesi Synon ikhonduyithi ym

construction

The building of things such as houses, factories, roads and bridges.

Source definition: Collins Cobuild

isiZulu **ukwakha**

construction engineering

A specialised branch of civil engineering concerned with the planning, execution, and of construction operations for projects such as highways, dams, utility lines, and buildings.

Source definition: Thefreedictionary.com

isiZulu ubunjiniyela bezokwakha

control engineering

The study and design of systems, typically of a mechanical or electrical nature, which control the operation of machinery.

Source definition: Oxforddictionaries.com

isiZulu ubunjiniyela bokuqondisa isiZulu ubunjiniyela bokuphatha

control joint

A groove which is formed, sawn, or tooled in a concrete or masonry structure to regulate the location and amount of cracking and separation resulting from the dimensional change of different parts of the structure, thereby avoiding the development of high stresses.

Source definition: www.en.wikitionary.org

isiZulu isivekela ukdubuka isiZulu isivikela kutlewuka

coping {protective cap)

The protective top member of any vertical construction such as a wall or chimney.

Source definition: Dictionary of Construction Terminology

isiZulu isisibekelwana sokuvimbela

corbel

A structural piece of stone, wood or metal jutting from a wall to carry a superincumbent weight.

Source definition: wikipedia.com adapted

isiZulu ikhobheli

comer bead

A material that is used on the corners of walls in drywall construction to make the corners crisp and professional looking.

Source definition: www.wisegeek.com

isiZulu isiklamuzelisi makhona

cornice

A decorative border of wood or stone at the edge of the ceiling of a room or under the roof of a building.

Source definition: www.dictionary.cambridge.com

isiZulu ipulangwe lonqenqema lesilingi isiZulu ikhonisi

counterfort

A strengthening buttress at right angles to a retaining wall, bonded to it to prevent overturning or to increase its bending strength. Synonym **buttress**

Source definition: www.collinsdictionary.com

isiZulu insika eqinisayo

course {roof} A row of shingles or roll roofing running the length of the roof.

Source definition: Dictionary of Construction Terminology

isiZulu ikhosi

cramp

Metal component built into masonry to join it to another member, for example a window frame ('frame cramp'), or to join two masonry units together. Synonym **clamp**

Source definition: Aleck Associates Ltd

isiZulu ikilempu

crane

A mechanically operated device which is located on or around a building site for the purpose of lifting building components or equipment into position.

Source definition: Construction Glossary of Building Terms

unkaxa
isicakuli
umboko
yibha
umshini wokufula izimpahla ezisindayo

crank

A device which allows movement to go between parts of a machine or which changes backward and forward movement into circular movement.

Source definition: www.wikipedia.com adapted

isiZulu	isigwedlo
siZulu	ikrenki

cricket {roof}

A device used at roof intersections to divert water.

Source definition: Beaufortonline.com

isiZulu ukhalo lophahla

cripple {building frame}

A structural element that is shorter than usual, as a stud above a door opening or below a window sill. Source definition: Thefreedictionary.com

isiZulu insikalencane

cripplejack rafter → cripple

cross bridging

A diagonal bracing between adjacent floor joints, placed near the centre of the joist span to prevent joists from twisting.

Source definition: Dictionary of Construction Terminology

isiZulu ukuqinisa okuphambanayo isiZulu uqinisa okunqumlayo

cross gable

A roof that has two or more gable rooflines that intersect.

Source definition: http://realtormagrealtor.org adapted

isZulu uphahla lokugamanxana kwamagebula

cross hipped roof

A type of a hip roof that has two intersecting hip sections that run perpendicular to each other.

Source definition: www.chasinggreen.org

isiZulu uphahlaoluyisiphambano uphahlaolungamulayo

isiZulu

culvert

A structure that allows water to flow under a road, railroad, trail, or similar obstruction from one side to the other side.

Source definition: Wikipedia.org

isiZulu umsele wokudonsa amanzi emgwaqeni

cupola {roof}

A small, decorative structure built on the roof of a house that is often placed over an attached garage and may also be used for ventilating purposes.

Source definition: Beaufortline.com

isiZulu ikhaphola

curb roof

A roof having two or more slopes on each side of the ridge.

Source definition: Homebuildingmanual.com

isZulu uphahlaolutshekile isiZulu uphahla lonqenqema

curing {concrete}

The process of maintaining satisfactory moisture and temperature conditions for freshly placed concrete for some specified time for proper hardening of concrete.

Source definition: Civilengineeringx .com

isZulu ukuqinisa ikhonkolo

custodial lock {windowhardware}

A window hardware only operable with a tool or key.

Sourcedefinition: Gbssary of Industry Terms

isiZulu isikhiya sefasitela

dado (wall)

The lower part of the wall of a room, below about waist height, when decorated differently from the upper part.

Source definition: Oxforddictionaries.com

isiZulu ibhande elizungeza udonga endlini isiZulu i-dado

damper

A moveable metal plate in a flue or chimney, used to regulate the draught and so control the rate of combustion.

Source definition: Concise Oxford English Dictionary

isiZulu insimbi evimbela umoya wokuvuthisa umlilo

damp-proof course

A type of moisture control applied to building walls and floors to prevent moisture from passing into the interior spaces. Abbreviation **DPC**

Source definition: Wikipedia

isiZulu udamkosi isithiyamswakama

isiZulu

dead bolt

An exterior security lock installed on exterior entry doors that can be activated only with a key or thumb-tum.

Source definition: Dictionary of Construction Terminology

isiZulu umshudo

design engineering

A discipline that creates and transforms ideas and concepts into a product definition that satisfies customer requirements.

Source definition: Innovationexcellence.com adapted

isiZulu	ubunjiniyela bezomqopho
isiZulu	ubunjiniyela bezomdwebo
isiZulu	ubunjiniyela bezokuqamba
isiZulu	ubunjiniyela bezoklama

die {specialised tool}

A specialised tool used in manufacturing industries to cut or shape material mostly using a press.

Sourcedefinition:Wikipedia

isiZulu ifolomu

domed roof

An architectural element that resembles the hollow upper half of a sphere.

Source definition: Wikipedia

isiZulu uphahla olugobongo

dormer {window}

An opening in a sloping roof, the framing of which projects out to form a vertical wall suitable for windows or other openings.

Source definition: Beaufortline.com

isiZulu ifasitela legumbimkhathi

isiZulu ifasitelaelusephahleni

downpipe downspout

downspout

A pipe on the side of a building that carries rain water down from the roof to the ground.

Synonym downpipe

Source definition: Macmillan English Dictionary

isiZulu umbhobhowegadasi isiZulu ipayiphi ewewukayo

DPC \rightarrow damp-proof course

drain tile

A perforated, corrugated plastic pipe laid at the bottom of the foundation wall and used to drain excess water away from the foundation.

Source definition: Dictionary of Construction Terminology

isiZulu umbhobho wokudonsa amanzi

dry-packed concrete

A strong mixture of cement and sand damped with small amount of water, used to fill holes in existing walls, for example in underpinning.

Source definition: Aleck Associates Ltd

isiZulu ukhonkolowokuvala imigodi

drywall

A board made of several plies of fiberboard, paper, or felt bonded to a hardened gypsum plaster core and used especially as wallboard.

Sourcedefinition: Mariam-Webster.com

isiZulu udonga lwebhodi

Dutch gable roof

A gable whose sides have a shape made up of one or more curves and has a pediment at the top.

Source definition: Wikipedia

isiZulu uphahla lwegebula lwesiDutch

dwarf wall

A low wall, not as high as the story of a building, often used as a garden wall or fence.

Source definition: Thefreedictionary.com

isiZulu udonga elifishane isiZulu ubonda elifishane

Ε

earthquake engineering

An interdisciplinary branch of engineering that designs and analyses structures, such as buildings and bridges, with earthquakes in mind and its overall goal is to make such structures more resistant to earthquakes.

Synonym seismic engineering

Source definition: Wikipedia.org adapted

isiZulu ubunjiniyela bezoku zama zama kwomhlaba

$\texttt{ECSA} {\rightarrow} \texttt{EngineeringCouncil} \ of \texttt{SouthAfrica}$

egress window {e.g. in case of an emergency}

A window large enough, as defined by local business codes for entry or exit in case of an emergency.

Source definition: Alure.com adapted

isiZulu ifasitela eliphumela ngaphandle

elbow {plumbing}

A sharply bent or fabricated angle fitting, usually of pipe, conduit, or sheet metal.

Source definition: Dictionary of Construction Terminology

isiZulu umbhobho oyindololwane

$electronic \ engineering \rightarrow electronics \ engineering$

electronics engineering

A discipline which uses the scientific knowledge of the behaviour and effects of electrons to develop components, devices, systems, or equipment that uses electricity as part of its driving force.

Synonym electronic engineering

Source definition: Wikipedia

isiZulu ubunjiniyela bezebonhansi

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elevator

A large container for carrying people or goods from one floor of a building to another. Synonym lift

Source definition: Longman Dictionary of Contemporary English adapted

isiZulu ilifthi

embankment

A ridge constructed of earth, fill rocks, or gravel and used most commonly to retain water or to carry a roadway.

Source definition: Dictionary of Construction Terminology

isiZulu udonga lokuvimbela isiZulu ubonda lokuvimbela

engineer

A person who is professionally trained to design and build machines, engines, certain equipment, or to construct roads, bridges, buildings, etc., using scientific principles.

Source definition: Cambridge Learners Advanced Dictionary adapted

isiZulu **unjiniyela**

engineering

The application of scientific and mathematical principles to practical ends such as the design, manufacture, and operation of efficient and economical structures, machines, processes, and systems.

Source definition: Thefreeditcionary.com

isZulu ubunjiniyela

engineering brick

A type of brick used where the strength, low water porosity or acid (flue gas) resistance are needed.

Source definition: Wikipedia.org

isiZulu isitini sobunjiniyela

Engineering Council of South Africa

A statutory body established in terms of the Engineering Profession Act (EPA), 46 of 2000 and its primary role is the regulation of the engineering profession in terms of this Act.

Acronym **ECSA**

Source definition: Engineeringnews.co.za adapted

isZulu umKhandlu wobuNji niyela wase niNgizimu Afrika

environmental engineering

The branch of engineering that is concerned with protecting people from the effects of adverse environmental effects.

Source definition: Livescience.com adapted

isZulu ubunjiniyela bebunjalo bendawo

escalator

A set of stairs that move and carry people from one level within a building to another.

Source definition: Longman Dictionary of Contemporary English

isiZulu izitebhisi ezizihambelayo

escutcheon {ornamental or protective plate, e.g. around keyhole}

An ornamental plate that fits around a pipe extending through a wall or floor to hide the cut out hole.

Source definition: Dictionary of Construction Terminology

isiZulu **i-escuthcheon** isiZulu **isikashini**

extrados

The exterior curve or surface of an arch or vault.

Source definition: Dictionary.com

isiZulu ingaphandle legobela

F

face brick

A brick which is intended to be visible, and is thus designed with some aesthetic aims in mind so that it is visually interesting and appealing to look at.

Source definition: www.wisegeek.com adapted

isiZulu isitini sangaphandle

faced wall

A wall whose masonry facing and backing are of different materials.

Source definition: Thefreedictionary.com

isiZulu udonga olwakhe ngezitini ezingafani

fascia

A decorative board fixed to the ends of the rafters.

Source definition: Aleck Associates Ltd.

isiZulu **ifishiyabhodi**

isZulu uqwembe lwesikhoco sendlu

faulting

The difference in elevation of two adjacent concrete slabs at ajoint, primarily caused by the traffic-induced movement of base material particles from under one joint edge to under the adjacent joint edge.

Source definition: Definitions of Civil Engineering Terms (1992)

isZulu ukuphama okuhlukile

fenestration

The design, construction, or presence of openings in a building and includes windows, doors, louvres, vents, wall panels, skylights, storefronts, curtain walls, and slope glazed systems.

Source definition: Wikipedia.org adapted

isiZulu ukuhlelwa kwesakhiwo isiZulu ukuba nezikhala kwesakhiwo

ferrule

A metal tube used to keep roof gutters open.

Source definition: Dictionary of Construction Terminology

isiZulu **iferuli**

isiZulu isongo lokuqinisa ilungu

filler-joistfloor

An obsolete but commonly-found form of floor comprising a concrete slab reinforced with steel *L*-beams known as rolled steel joints.

Source definition: Aleck Associates Ltd.

isiZulu indawo yaphansi eqinisiwe ngentsimbi nokhonkolo

fink truss

A wood or steel truss used to support a roof with a span of up to 50 feet.

Sourcedefinition: www.Yourdictionary.com

isiZulu	amakabha kaFink
isiZulu	amabhanuko kaFink
isiZulu	uhlaka lophahla kaFink
isiZulu	uhlaka lophahla olunxantathu

firebrick

A block of refractory ceramic material used in lining furnaces, kilns, fireboxes, and fireplaces.

Source definition: Wikipedia

isiZulu isitina esimela na nomlilo

firewall

A wall or partition designed to inhibit or prevent the spread of fire.

Source definition: Concise Oxford English Dictionary English 11th Edition

isiZulu ubonda lokuvimbela umlilo isiZulu udonga lokuvimbela umlilo

fixture branch {plumbing}

Any pipe which connects several plumbing fixtures, such as a drain serving two or more fixtures or a supply pipe between the water-distributing pipe and several fixtures.

Source definition: Thefreedictionary.com

isZulu ipayipi ekuhlanganiswa kulo

isiZulu ipayipi ekudibaniswa kulo

fixture unit {unit of measure in plumbing}

A unit of measure, based on the rate of discharge, time of operation and frequency of use of a fixture, that expresses the hydraulic load imposed by that fixture on the sanitary plumbing installation.

Source definition: Wikipedia.org adapted

isiZulu isilinganisi payipi

isiZulu isikali somthamo

flagstone

A generic flat stone, usually used for paving slabs or walkways, patios, fences and roofing.

Source definition: Wikipedia.org adapted

isiZulu itshe eliyixwexwe

flange

A projecting rim, collar, or ring on a shaft, pipe, machine housing, etc., cast or formed to give additional strength, stiffness, or supporting area, or to provide a place for the attachment of other objects.

Source definition: Dictionary.com

isiZulu **iflenji** isiZulu **impundu yesondo**

flap gate {e.g. to prevent inflow of water}

A device that allows water to flow in one direction only through a culvert; it is used especially to drain surface water from coastal marshes at low tide.

Source definition: www.Yourdictionary.com

isiZulu isango lokulawula amanzi

flashing {e.g. to prevent seepage from wind and water}

Material, usually metal, used to prevent seepage of wind and water at any roof intersection or projection such as vent pipes, valleys, chimneys, dormers etc.

Source definition: Engineering-dictionary.org

isiZulu ucwecwe lokhethe eluvalela imvula ingangeni

flat roof

A roof with a slight fall which is designed and constructed to allow rainwater to be shed by gutters, outlets or to the perimeter of the roof.

Source definition: National Building Regulation Code of Good Practice

isiZulu uphahla eliyithafa

flatwork

Any flat system of construction, such as a concrete slab, sidewalks, patios, asphalt drives and parking lots.

Source definition: Dictionary.com

isiZulu **ithafa**

flitched beam

A compound beam used in the construction of houses, decks, and other primarily wood- frame structures.

This gazette is also available free online at www.gpwonline.co.za

Source definition: Wikipedia.org adapted

isZulu ugongolo isZulu umjanjatho

floatingwall

A non-bearing wall built on a concrete floor.

Source definition: Dictionary of Construction Terminology

isiZulu ubonda oluntantayo isiZulu udonga oluntatayo

floor → storey

flue pipe

A pipe that leads from a fire or heater to the outside of a building, taking smoke, gases, or hot air away.

Source definition: www.dictionary.cambridge.org

- isiZulu umbhobho wentuthu
- isiZulu umbhobho kashimula

fly ash → pulverised fuel ash

fly rafter {roofing}

A gable-end rafter on a roof overhang that runs parallel to the common rafters and is supported by the lookout rafter.

Source definition: Dictionary of Construction Terminology

isiZulu umshayo

flywheel {mechanical device}

A heavy wheel that is part of some engines.

Source definition: Collins Dictionary

isiZulu **ifulayiwili**

folding door

A type of door which opens by folding back in sections or so-called panels.

Source definition: Wikipedia

isiZulu umyango osongayo

footing {concrete support}

A foundation unit constructed in brick work, masonry or concrete under the base of a wall or a column for the purpose of distributing the load over a large area.

Source definition: www.Quora.com

isiZulu	isizinzisi
isiZulu	isisekelo

foundation

The part of a structure of a building that is below the ground and supports the rest of it.

Source definition: Macmillan English Dictionary

isiZulu	isisekelo
isiZulu	umthambo

frog {brick}

A depression made on the face of bricks during moulding.

Source definition: Civilsutra.in

isiZulu isifocosesitini

G

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gable {roof}
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The triangular upper part of a wall at the end of a ridged roof.

Source definition: Concise Oxford English Dictionary

isiZulu	igebuli
isiZulu	igebula

galvanised iron {iron coated with zing}

Iron, especially a sheet of corrugated iron, covered with a protective coating of zinc.

Source definition: www.Collinsdictioary.com

isiZulu uthayela

gambrel roof

A hipped roof with a small gable forming the upper part of each end.

Source definition: www.oxforddictionaries.org

isiZulu uphahla oluyigambreli isiZulu uphahla lwegebulana

geotechnical engineering

The branch of engineering concerned with the analysis, design and construction of foundations, slopes, retaining structures, embankments, tunnels, levees, wharves, landfills and other systems that are made of or are supported by soil or rock.

Source definition: Ejge.com adapted

isiZulu ubunjiniyela ngobunjalomhlaba

girder

A beam, as of steel, wood, or reinforced concrete, used as a main horizontal support in a building or bridge.

Source definition: Thefreedictionary.com

isiZulu insika ephansi okwakhiweyo isiZulu umjanjatho wensimbi

green roof {roof covered with e.g. vegetation}

A roof covered with vegetation, designed for its aesthetic value and to optimise energy conservation.

Source definition: www.dictionary.com

isiZulu uphahla eluhlobile

isiZulu uphahla oluhlaza

grille

A metal frame with bars or wire across, that is used for protecting a door or a window.

Source definition: Macmillan English Dictionary

isZulu ifasitela elinezinsimbi ezivimbileyo

grout

A mortar or paste for filling crevices, especially the gaps between wall or floor tiles.

Source definition: Concise Oxford English Dictionary

isiZulu **igrawuthi** isiZulu **isinamathelisi**

gusset plate

A triangular plate of steel that is used to connect beams and girders to columns.

~ ~

Source definition: Wikipedia.org amended

isZulu isiqinisindwangu

gutter

An open pipe at the lower edge of a roof which collects and carries away rain water.

Source definition: Cambridge Advanced Learners Dictionary

isiZulu ugadasi

Н

half-hip roof

A variant of a hip roof depicting a small modification at the top of the gable.

Source definition: Myrooff.com

isiZulu uphahla oluqhunsuke macala

hardware {tools and equipment}

Metal tools, materials and equipment used in a house or a garden, such as hammers, nails and screws.

Source definition: Cambridge Advanced Learners Dictionary

isiZulu izimpahla zokwakha

isiZulu amathulusi

hearth

The floor of a fireplace in a house and the area around it.

Source definition: Macmillan English Dictionary

isiZulu **iziko**

hip and valley roof *A modified or extended hip* roof.

Source definition: www.qbis.com

isiZulu uphahla ulonwebekile

hip roof

A simple roof which slopes downward at all points and has a uniform angle of pitch.
Source definition: Wikihow

isiZulu umjanjatho onabile

hod {*three-sided container for carrying bricks etc*}

A three-sided container mounted on a pole, used to carry bricks or mortar up a ladder.

Source definition: Aleck Associates Ltd.

isiZulu okokuphatha izitini

honeycomb brickwork

A brick bond characterised by the absence of certain bricks for decorative purposes, or to allow ventilation or provide a screened effect.

Source definition: Thefreedictionary.com

isiZulu udonga oluhlobiswe njengokhekheba

Howe truss

A truss having vertical and diagonal members between the upper and lower horizontal members.

Source definition: Meriam-Webster.com

isiZulu amakabha kaHowe isiZulu amabhanukokaHowe

hydraulic cement

A product used to stop water and leaks in concrete and masonry structures and is a type of cement, similar to mortar, that sets extremely fast and hardens after it has been mixed with water.

Source definition: Thebalance.com adapted

isiZulu usemende womfutholuketshezi

hydraulic engineering

The branch of civil engineering dealing with the use and control of water in motion.

Source definition: Vocabulary.com

isiZulu ubunjiniyelabomfutholuketshezi

industrial engineering

The branch of engineering that is concerned with the production of industrial goods, especially by the design of efficient plants and procedures and the management of

materials, energy, and labour.

Source definition: Thefreedictionary.com

isZulu ubunjiniyela bezemsembenzi

insulation

The act of covering something to stop heat, sound, or electricity from escaping or entering, or the fact that something is covered in this way.

Source definition: Cambridge.org

isiZulu	ukuvimbelakushisa
isiZulu	ukwemboza

intrados

The interior curve or surface of an arch or vault.

Source definition: Dictionary.com

isiZulu igobela langaphakathi lweashi

J

jamb {lining of e.g. a doorway}

The side and head lining of a doorway, window, or other opening.

Source definition: Homebuildingmanual.com

isiZulu isigxobo somnyango

isiZulu impeladonga yesikhala

joggle

A joint between two pieces of stone, concrete, or timber, consisting of a projection in one of the pieces fitting into a notch in the other, or a small piece let in between the two.

Source definition: Concise Oxford English Dictionary English 11th Edition

isZulu ijoyinti isiZulu isihlanganisi

joinery

The wooden components of a building collectively.

Source definition: Concise Oxford English Dictionary English 11th Edition

isiZulu umsebenziwokubaza amapulangwe

joint sealant

A material used as a filler in concrete pavement joints to prevent infiltration of water, soil and other fine particles.

Source definition: Definitions of Civil Engineering Terms (1992)

isiZulu ijoyinti yokuxhumanisa

joist

Any of the small timbers or metal beams ranged parallel from wall to wall in a structure to support a floor or ceiling.

Source definition: Mariam-Webster.com

isiZulu **ijoyisti** isiZulu **umshayo wokusekela**

Κ

keystone

A stone at the top of an arch that keeps the structure together.

Source definition: Macmillan English Dictionary

isiZulu itshe eliyisisekelo

isiZulu isikhonkhwane seMashi

kicker {stability}

A wood block or board attached to a formwork member in a building frame or formwork to make the structure more stable.

Source definition: Dictionary of Construction Terminology

isiZulu isizinzisi

king closer {brick}

A rectangular brick having one corner cut diagonally to half the end of the brick and used to fill an opening in a course larger than half a brick.

Source definition: Thefreedictionary.com adapted

isiZulu i-king closer isiZulu isitini esingunxande

king post {roof}

A structural member running vertically between the apex and base of a triangular roof truss.

Source definition: Dictionary.com

isiZulu ikabha eliyisisekelo

L

laminated strand lumber

An engineered wood product developed in the 1980s in which wood strands are glued together and pressed into forms using steam injection. Abbreviation **LSL**

Source definition: Thefreedictionary.com

isiZulu amapulangwe anamathelisiwe

latch

A spring lock for an outer door, which catches when the door is closed and can only be opened from the outside with a key.

Source definition: Concise Oxford English Dictionary

isiZulu isiqhebeza somnyango iweji isiZulu

lateral sewer \rightarrow side sewer

lath

A thin strip of wood nailed to studs or joints as carrier for plaster. Source

definition: Aleck Associates Ltd.

isiZulu ilati isiZulu ipulangwe elilula

lattice

A framework consisting of an ornamental design made of strips of wood or metal.

Source definition: WordReference

isiZulu ilathisi isiZulu isihonga esakhiwe ngokuphuca izintingo

lean-to roof

A single slope roof with its upper edge adjoining a wall or a building.

Source definition: https://gharpedia.com

isiZulu uphahla oluehlelayo

43

ledger

A horizontal scaffold pole fixed to two upright poles for supporting the outer ends of putlogs.

Source definition: Thefreedictionary.com

isiZulu ileja

lewis{steeldevice}

A steel device for lifting heavy blocks of stone or concrete, consisting of three pieces arranged to form a dovetail.

Source definition: Concise Oxford English Dictionary English 11th Edition

isiZulu isifunquli samatshe noma ukhonkolo

Lift \rightarrow elevator

lift pit

That part of an elevator shaft that extends from the threshold level of the lowest landing door down to the floor at the very bottom of the shaft.

Source definition: Thedictionaryforcostruction.com

isiZulu **umgodi welifthi** isiZulu **umgodi weshafti**

lime mortar

A mortar made of lime, sand, water, and occasionally a small quantity of cement.

Source definition: Meriam-Webster.com

isiZului	udaka	lomcako
siZulu	udaka	lokhalikho

lintel

A piece of stone or wood that supports the wall above a door or window. Synonym **lintol**

Source definition: Aleck Associates Ltd.

isiZulu il	entela
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isiZulu	umshayo	ophezu	komnyango
isiZul u	umshayo	ophezu	kwefasitela

lintol \rightarrow lintel

load-bearing wall

A wall that is an active structural element of a building, that is, it bears the weight of the elements above said wall, resting upon it by conducting its weight to a foundation structure.

Source definition: Wikipedia

isiZulu ubonda lokuthwala isakhiwo isiZulu udonga lokuthwala isakhiwo

louver → louvre

louvre

A framed opening, as in a wall, door, or window, fitted with fixed or movable horizontal slats for admitting air or light and often for shedding rain.

Source definition: Thefreedictionary.com

isiZulu i-louvre

LSL→ aminated strand lumber

Μ

manhole

A hole in the surface of a road or street, covered with a metal lid and used for entering an underground passage such as sewer.

Source definition: Macmillan English Dictionary

isiZulu umbhobho wokungena

mansard roof

A roof having four sides, in each of which the lower part of the slope is steeper than the upper part.

Source definition: Concise Oxford English Dictionary English 11th Edition

- isiZulu uphahla oluyimpindakwehla
- isiZulu uphahla oluyimpindamgingqilizi
- isZulu uphahla lukaMansard

mantelpiece → mantlepiece

mantelpiece

A construction framing the opening of a fireplace and usually covering part of the chimney

breast in a more or less decorative manner. Synonym **mantelpiece**

Source definition: Dictionary.com

isiZulu ishalufueliphezu kweziko isiZulu isembeso seziko

manufacturing engineering

A branch of professional engineering requiring such education and experience as is necessary to understand and apply engineering procedures in manufacturing processes and methods of production of industrial products.

Source definition: Researchgate.net adapted

isZulu **ubunjiniyela bezokwenza** isZulu **ubunjiniyela bezemishini**

masonry

The bricks or stones that make a building wall, or other structures.

Source definition: Macmillan English Dictionary

isiZulu ubonda lwamatshe abaziweyo isiZulu udonga lwamatshe abaziweyo

mastic {waterproof filler}

A putty-like waterproof filler and sealant used in building.

Source definition: Collins Cobuild

isiZulu imastiki

matte finish \rightarrow mattfinish

matt finish

A paint, colour, or surface that is dull rather than shiny. Synonym **matte finish**

Source definition: Collins Cobuild

isiZulu umbala obuthuthu

maul {tool}

A heavy, long-handled hammer used especially to drive stakes, piles, or wedges. Source

definition: Thefreedictionary.com

isiZulu isando

mechanical engineering

The branch of engineering concerned with the design, construction, and operation of machines and machinery.

Source definition: Collinsdictionary.com

isiZulu ubunji niyela bezemishini

millwork

Woodwork (such as doors, sashes, or trim) manufactured at a mill.

Source definition: Homebuildingmanual.com

isZulu umsebenziwamapulangwe isiZulu okwamapulangwe

miningengineering

A branch of engineering concerned primarily with the location and evaluation of mineral deposits, the survey of mining areas, the layout and equipment of mines, and the supervision of mining operations.

Source definition: Mariam-Webster.com

isiZulu **ubunjiniyela bezemigodi** isiZulu **ubunjiniyela bezemayini**

miter saw \rightarrow mitre saw

mitre saw

A specialised tool that lets one make cuts at a variety of angles. Synonym **miter saw**

Source definition: www.Google.com

isiZulu isaha lemitha

monolithicconcrete

A reinforced concrete cast with no joints other than construction joints.

Source definition: Encyclopedia Britannica

isiZulu ikhonkolo lebumbene

mono-pitch roof

A single-sloped roof surface, often not attached to another roof surface. Synonym single-pitch roof Source definition: Wikipedia adapted

isiZulu uphahla eluphakeme

mortar

A mixture of lime with cement, sand, and water, used in building to bond bricks or stones.

Source definition: Concise Oxford English Dictionary English 11th Edition

isiZulu udaka

mortice

A hole cut into a piece of wood or stone into which one fits the end of another piece of wood or stone called a tenon in order to join the two pieces. Synonym **mortise**

Source definition: Macmillan English Dictionary

isiZulu ingoxi epulangweni isiZulu isihlanganisi magilasi esimile isiZulu imothisi

 $mortise \rightarrow mortice$

mullion {window}

A piece of metal, wood, or stone used for separating the pieces of glass in a window.

Source definition: Macmillan English Dictionary

isiZulu isihlanganisi magilasi esimile

muntin{window}

Any of the strips of wood or metal used for support between panes of glass, as in a window.

Source definition: Collins English Dictionary

isiZulu imicu esekela igilasi yefasitela

nano-engineering

A field focused on manipulating processes that occur on the scale of 1 to 100 nanometres.

Ν

Source definition: Wisegeek.com adapted

isiZulu ubunjin iyela benano

nanometre

A unit of length in the metric system, equal to one billionth (short scale) of a metre.

Source definition: Wikipedia.com adapted

isiZulu i-nanomitha

nanotechnology

The manipulation and manufacture of materials and devices on the scale of atoms or small groups of atoms.

Source definition: Britannica.com

isiZulu **ithekinoloji yenano** Synonym **buchwepheshe benano**

needle {steel beam}

A steel beam used to support an existing structure while it is being repaired, or to provide support when moving a structure, or when removing a portion of the wall below the beam.

Source definition: Thefreedictionary.com adapted

isiZulu ibhimu yensimbi

isiZulu umshayo wensimbi

non-load bearing wall

A wall capable only of supporting its own weight and (if it is an exterior wall) capable of resisting the force of the wind blowing against it; it cannot support an imposed load.

Source definition: Thefreedictionary.com

isiZulu	udonga olungenakumelana nomthwalo?
isiZulu	udonga olungenakumelana nomthwalo?

0

oriel window

An upper storey window projecting outward from a wall.

Source definition: Theconstructioncivil.org

isiZulu iwindi lweoriyeli isiZulu ifasitela lweoriyeli

isiZulu fasitela eliphumele ngaphandle

outrigger

A structural element projecting out from a building to act as support, usually for a barge roof overhang.

Source definition: En.mimi.hu

isiZulu isizinzisi sesikhobe sesinqe sophahla

isizinisi sesakhiwo

Ρ

padstone

A block of concrete or stone used to spread the weight of a beam orjoist, to avoid crushing the wall upon which it rests.

Source definition: Aleck Associates Ltd.

isiZulu iphedistoni

parapet {wall}

A barrier which is an extension of the wall at the edge of a roof, terrace, balcony, walkway or other structure.

Source definition: Aleck Associates Ltd.

isiZulu udongasivimbelakuwa isiZulu uthango lokuvikela isiZulu ipharaphethi

partition {wall}

A non-load bearing wall between rooms or areas in a building.

Source definition: Aleck Associates Ltd.

isiZulu **uthango lokwahlukarisa** isiZulu **isahlukaniso**

$partition stud \rightarrow stud$

partywall

A wall that divides two buildings that are joined together, and belongs to both of them.

Source definition: Dictionary.cambrdige.org

isiZulu udonga oluhlukanisa izindlu isiZulu ubonda oluhlukanisa izindlu

petroleum engineering

The study of how to locate and extract energy resources, such as oil and natural gas, from the earth.

Source definition: Learn.org adapted

isiZulu	ubunjiniyela	bezephetroli
ыZulu	ubunjiniyela	bezephalafini

pier {e.g. support for a bridge}

A wide column or a wall of masonry, plain or reinforced concrete for carrying heavy loads, such as a support for a bridge.

Source definition: Definitions of Civil Engineering Terms (1992)

isiZulu	insika	iphiye
isiZulu	insika	yamatshe

pilaster {column}

A flat column that is slightly further forward than the rest of a wall.

Source definition: Macmillan English Dictionary

isiZulu insika

pile {foundation}

Wooden, concrete, or metal posts which are pushed into the ground and on which buildings or bridges are built which are often used in very wet areas so that the buildings do not flood.

Source definition: Collins Cobuild adapted

isiZulu insika okwakhiwa phezu kwazo

pile driver

A large machine that pushes posts into the ground to support new buildings.

Source definition: Macmillan English Dictionary

isiZulu i-pile driver

pillar

A tall vertical structure, usually of stone, used as a support for building.

Source definition: Concise Oxford English Dictionary

isiZulu insika

pilot hole

A guiding hole for a nail or screw, or for drilling a larger hole.

Source definition: Dictionary of Construction Terminology

isiZulu intunja yesi pikili

plaster {walls and ceilings}

A soft mixture of lime with sand or cement and water for spreading on walls and ceilings to form a smooth hard surface when dried.

Source definition: Concise Oxford English Dictionary

isiZulu	udaka	lokunameka
isiZulu	udaka	lokuphahleka

plasterboard

A board made of plaster set between two sheets of paper, used especially to line inner walls.

Source definition: Concise Oxford English Dictionary

isiZulu ipulangwe lodaka

plinth

The portion of the external wall between the level of the street and the level of the floor first above the street.

Source definition: Theconstructioncivil.org

isiZulu isisekelo isiZulu ipilinti isiZulu uxhaso isiZulu ukholomu

plum \rightarrow plum stone

plumbing fixture

An exchangeable device which can be connected to a plumbing system to deliver and drain water.

Source definition: Wikipedia.org adapted

isiZulu isisetjenziswa sokumfunza amanzi

plumstone

A large stone or piece of solid concrete used as a filler in mass concrete. Synonym **plum**

Source definition: Aleck Associates Ltd.

isiZulu itshelokugwalisa

plywood

A type of board used for building houses, furniture etc., made from thin layers of wood that are fixed together using glue.

Source definition: Macmillan English Dictionary

isZulu ipulangwe

pointing {cement}

The cement or mortar between the stones or bricks in a wall.

Source definition: Macmillan English Dictionary

isZulu udaka lokwakha

poling board

A board used to support the sides of an excavated structure.

Source definition: Oxforddictionaries.com

isiZulu ibhodi yokusekela indawo eghubiweyo ibhodi isiZulu yokusekela isakhiwo embiweyo

portal frame

A frame, usually of steel, consisting of 'two uprights and a cross beam at the top.

Source definition: Collinsdictionary.com

isiZulu ifulemu lesakhiwo Synonym uhlaka lesakhiwo

portico {entryway}

A covered entryway attached to house, usually open on three sides and supported by posts or columns.

Source definition: Beaufortonline.com

isiZulu umnyango

isiZulu **isango**

Source definition: Yourdictionary.com

Portland cement

A kind of cement that hardens under water, made by burning a mixture of limestone and clay or materials similar.

Source definition: Yourdictionary.com

isiZulu usemende we-Portland

post stressed concrete

Concrete strengthened with steel wires which are stressed after the concrete has cured. Synonym post tensioned concrete

Source definition: Aleck Associates Ltd.

isiZulu ikhonkolo eqiniswe ngensimbi

post-tensioned concrete → post-stressed concrete

prefabricated house

A house that is built in sections or component parts in a plant, and then assembled at the site.

Sourcedefinition: Beuafortonline.com

isiZulu indluiphrifebhu

pre stressed concrete

Concrete strengthened with steel wires which are stressed before the concrete is poured. Synonym pre tensioned concrete

Source definition: Aleck Associates Ltd.

isZuluikhonkoloeqinlsiwekokucalangensimbiisiZuluikhonkoloeqaliswe ngensimbi

pre-tensioned concrete \rightarrow pre-stressed concrete

primer

The first, base coat of paint when a paint job consists of two or more coats.

Source definition: Homebuildingmanual.com

isiZulu upendewokuqala

profilograph {instrument} An instrument for measuring and recording roughness of the surface over which it travels.

Source definition: Thefreedictionary.com

isiZulu iphrofilografu

progressive collapse {demolition}

The process wherein the collapse of part of a building leads to the collapse of an adjacent part in 'house of cards' fashion.

Source definition: Aleck Associates Ltd.

siZulu ukubhidlizwa ngokwehlukana kwesakhiwo

pugging {insulation}

A traditional infill between timber floor joints intended to enhance the acoustic insulation of the floor.

Source definition: Aleck Associates Ltd.

isiZulu ukufakwa kwesivimbelimsindo

pulley {e.g. construction}

A wheel with a grooved rim around which a cord passes, used to raise heavy weights.

Source definition: Oxford English Dictionary

isiZulu isondo lokugijimisa intambo noma iketanga isiZulu umdonso isiZulu iphuli

pulverised fuel ash

A fine white powder resulting from burning powdered coal in power stations, which can be used to supplement cement in making concrete for civil engineering works. Synonym **fly ash**

Source definition: Aleck Associates Ltd.

isiZulu	umlotha	wezibasozophuquza
isiZulu	umlotha	wezibasozencushuza

purlin

A horizontal structural member which supports a sloping roof covering, with or without rafters, and which carries the roof loads to the primary framing members.

Source definition: Aleck Associates Ltd.

isiZulu	iphelini
isiZulu	ithandela

 $putlock \rightarrow putlog$

putlog

A short horizontal pole projecting from a wall, on which scaffold floorboards rest.

Synonym **putlock**

Source definition: Concise Oxford English Dictionary English 11th Edition

isiZulu isixhasi-sikafula

pyramid hip roof

A roof that takes the shape of a pyramid and it is constructed on top of a square or a rectangular base.

Source definition: www.myrooff.com adapted

isiZulu	uphahla	oluyiphram	idi
isiZulu	uphahla o	luyisikwele	mcjo

Q

quarry

An excavation or pit, usually open to the air, from which building stone, slate, or the like, is obtained by cutting, blasting, etc.

Source definition: Dictionary.com

isiZulu igilasi elinomumo wedayimani

isiZulu inkwali

quarry tile

A man-made or machine-made clay tile used to finish a floor or wall.

Source definition: Dictionary of Construction Terminology

isiZulu isitini sokufuela senkwali

queen closer {brick}

A brick of normal length and thickness but of half normal width, used to complete a course or to space regular bricks.

Source definition: Thedictionary.com

isiZulu **isitini esiphungulwe emhubuweni** Synonym **isitini esihafulwe emhlubuweni**

queen post {roof}

A tension member in a truss that can span longer openings than a king post truss.

Source definition: Wikipedia

isiZulu **isekansika**

quoin {wall}

The external corner where two brick walls meet.

isiZulu	itshe lekhona
isiZulu	itshe legumbi
isiZulu	ikhoyini

R

radon system {ventilation system}

A ventilation system beneath the floor of a basement and/or structural wood floor and designed to fan exhaust radon gas to the outside of the home.

Source definition: Homebuildingmanual.com

isiZulu indlela yokungenisa umoya

rafter {roof}

A large piece of wood that supports a sloping roof.

Source definition: Macmillan English Dictionary

isiZul	umshayo
u	umjibe
isiZulu	umjanjatho
isiZulu	

raft foundation

A thick concrete slab reinforced with steel which covers the entire contact area of the structure like a thick floor.

Source definition: civil-engg-world.blogspot.com

- isZulu umsahyo wesisekelo
- isiZulu **umjibe wesisekelo**
- isiZulu umjanjatho wesisekelo
- isiZulu isihlenga sesisekel o

rebate {woodwork}

A groove cut along the edge of a board producing an L-shaped strip that is used as trim and in joint work in cabinet construction.

Source definition: Beaufortonline.com

isiZulu i-rebate

reinforced concrete

Concrete in which metal bars or wire are embedded to strengthen it.

Source definition: Concise Oxford English Dictionary

isiZulu ikhonkolo eliqinisako

 $restrainer \rightarrow retarder$

retarder {cement}

A substance added to slow down the rate of a chemical change, such as one added to cement to delay its setting. Synonym restrainer

Source definition: Collins English Dictionary

isiZulu	isilibazisi
isiZulu	isivimbeli

reveal {*a*rchitecture} Either side surface of an aperture in a wall for a door or window.

Source definition: Concise Oxford English Dictionary English 11th Edition

isiZulu i-rivili

revolving door

A door, especially at the entrance of a building, typically made of three or four rigid upright sections joined at right angles and rotating about a central upright pivot.

Source definition: Thefreedictionary.com

isiZulu umyango oginqikayo isiZulu umyangoophendukayo

ridge {roof}

The edge formed where the two sloping sides of a roof meet at the top.

Source definition: Concise Oxford English Dictionary

isiZulu umqolo wophahla

isiZulu ukhalobphahla

ridge tile

A curved tile which covers the ridge on a pitched roof.

Source definition: Aleck Associates Ltd.

isiZulu umbhobho wesitini sokufuela

riprap {e.g. wall}

A sustaining wall or foundation of random stone to prevent erosion on an embankment.

Source definition: Beaufortonline.com

isiZulu udonga elivikela ukukhukhuleka?

riser {*staircase*}

A vertical board rising from the back of one tread of a staircase to the front of the next.

Source definition: Aleck Associates Ltd.

isiZulu ukuphakama kwezithebisi

roof light →skylight

rough arch

A brick arch in which the bricks are rectangular and the arch shape is formed by means of the mortarjoints being wedge-shaped.

Source definition: Aleck Associates Ltd.

isiZulu i-ashi yezitini ezingasikwanga

rustication

A type of decorative masonry achieved by cutting back the edges of stones to a plane surface while leaving the central portion of the face either rough or projecting markedly.

Source definition: Britannica.com

isiZulu	i-rustication	
isiZulu	umhlobiso wezici zamatshe	2

S

saddle-back roof

A double sloping roof with a ridge and gables at each end.

Source definition: Thefreedictionary.com

isiZulu uphahla lokhalo lwegqumqa?

sanitaryengineering

The branch of civil engineering associated with the supply of water, disposal of sewage, and other public health services.

Source definition: Collinsdictionary.com

isiZulu ubunjiniyela benkucunkucu

sanitary sewer

A sewer system designed for the collection of waste water from the bathroom, kitchen and laundry drains, and is usually not designed to handle storm water.

Source definition: Dictionary of Construction Terminology

isiZulu ipayipi lokuchitha inkucunkucu

sashwindow

A window that can be opened either by sliding the bottom half up or by sliding the top half down. Synonym cased window

Source definition: Meriam-Webster.com

isiZulu ifasitelaeliphakanyiswayo

scaffold

A structure of poles and planks used by workers to stand on when building.

Source definition: Shuters Life Orientation Leaners Book 2006

isiZulu isikafodi

scarf joi nt

A method of joining two members end to end in woodworking or metalworking. Synonym scarph joint

Source definition: Wikipedia adapted

isiZulu ukuhlanganiswa okuyisikafu

isiZulu ukudibaniswa okuyisikafu

scarph joint → scarf joint

screed

A strip of wood, plaster, or metal placed on a wall or pavement as a guide for the even application of plaster or concrete.

Source definition: Thefreedictionary.com

isiZulu iskridi isiZulu isilinganisi

scupper

Any opening in a wall, parapet, bridge curb, or slab that provides an outlet through which excess water can drain.

Synonym scupper hole

Source definition: Dictionary of Construction Terminology

isiZulu imbobo

scupperhole → scupper

scuttle

A small opening or hatch with a moveable lid in the deck or hull of a ship or in the roof, wall, or floor of a building.

Source definition: Thefreedictionary.com

isiZulu intunja

seal coat {roads}

A thin bituminous application to a surface or wearing course to seal and waterproof small voids and to embed sand or chips to provide better traction.

Source definition: Definitions of Civil Engineering Terms (1992)

isiZulu **itiyela**

 $seismic\, engineering \rightarrow \, \text{earthquake engineering}$

septic tank

A tank in which the solid matter of continuously flowing sewage is disintegrated by bacteria.

Source definition: Meriam-Webster.com

isiZulu ithangelokubolisela

sewer

A pipe or conduit which is the property of or is vested in the local authority and which is used or intended to be used for the conveyance of sewage.

Source definition: The Concrete & Mortar Handbook adapted

isiZulu umbhobhowonkucunkucu

sewer connection → sewer stub

sewer stub

The point at which a home's sewer line joins the municipal sewer system.

Synonym sewer connection

Source definition: Dictionary of Construction Terminology

isiZulu iqhosha lokuhlanganisa

shear wall

A rigid vertical diaphragm capable of transferring lateral forces from exterior walls, floors, and roofs to the ground foundation in a direction parallel to their planes.

Source definition: Britannica.com

isiZulu udonga olumelana noku zamazama komhlaba isiZulu udonga olunkhonkhiwe

shed roof

A roof having only one sloping plane and no hips, ridges or valleys.

Source definition: Yourdictionary.com

isZulu uphahla olutshekele eceleni

sheer legs {lifting device}

A hoisting apparatus made from polesjoined at or near the top and separated at the bottom, used for lifting heavy objects.

Source definition: Concise Oxford English Dictionary

isiZulu umshini wokufula izimpahla ezisindayo isiZulu isifunquli

shim

A small piece of scrap lumber or shingle, usually wedge shaped, which when forced behind a furring strip or framing member forces it into position.

Source definition: www.askdefine.com

This gazette is also available free online at www.gpwonline.co.za

isiZulu **iweji**

shingle {walls and roofs}

A rectangular wooden tile used on walls or roofs.

Source definition: Dictionary of Construction Terminology

isiZulu **ishingili**

shutter

Each of a pair of hinged panels fixed inside or outside a window that can be closed for security or privacy or to keep out the light.

Source definition: Concise Oxford English Dictionary English 11th Edition

isiZulu isivalo sewindl isiZulu isivalo sefasitela

sidesewer

The portion of the sanitary sewer which connects the interior waste water lines to the main sewer lines.

Synonym lateral sewer

Source definition: Dictionary of Construction Terminology

isiZulu ipayipi yenkucunkucu eseceleni

sill

A shelf or slab of stone, wood, or metal at the foot of a window or doorway.

Source definition: Concise Oxford English Dictionary

isiZulu isili yefasitela isiZulu isili yosango

sill plate

The bottom horizontal member of a wall or building to which vertical members are attached.

Source definition: Wikipedia

isiZulu ipuleti yesili

sillseal

A type of insulation (fibreglass or foam) installed between the foundation wall and wood sill plate to fill gaps.

Source definition: Dictionary of Construction Terminology amended

isiZulu isinamathelisi sesili

single-pitch roof → mono-pitch roof

siphonage {plumbing}

The emptying of the seal in a trap by the aspiration of the water in the trap due to the downward rush of water and air in the pipes with which the trap is connected.

Source definition: www.wordnik.com

isiZulu ukukhamba ngefanelo kwamanzi

skewback {supporting wall}

An inclined part of a pier or abutment from which an arch springs. Synonym **springer**

Source definition: Theconstructioncivil.org

isZulu islsekela-ashi

- skewback → springer
- skirting → baseboard

skylight

An opening in a roof covered by glass or plastic material to admit natural light. Synonym **roof light**

Source definition: Beaufortonline.com

isiZulu ifasitela phezulu ophahleni

slag {binder}

A latent hydraulic binder that is used in concrete and other construction applications as a partial cement replacement material.

Source definition: Afrisam.coza

isZulu isibopho

sleeper {flooring}

A wood member embedded in concrete, as in a floor, that serves to support and to fasten the subfloor or flooring.

This gazette is also available free online at www.gpwonline.co.za

Source definition: Homebuildingmanual.com

isiZulu isisekeli esifakwa epulangweni

sleeper wall

A masonry wall constructed to support a suspended ground floor.

Source definition: The Concrete & Mortar Handbook

isiZulu ubonda lwamapulangwe Synonym udonga lwamapulangwe

sliding door

A type of door which opens horizontally by sliding, usually parallel to a wall.

Source definition: Wikipedia

isiZulu umyango oshelelezayo

slurry {e.g. cement}

A thin, watery mixture of neat cement or cement and sand.

Source definition: Definitions of Civil Engineering Terms (1992)

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isiZului udaka elilula
sZulu udaka olumanzi
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soaker {metal sheet}

A metal sheet bent at a right angle, part of the waterproof flashing of the junction of a tiled or slated roof abutting a wall.

Source definition: Aleck Associates Ltd.

isiZulu isivimbelimanzi

soffit {architecture}

The underside of an architectural structure such as an arch or balcony.

Source definition: Concise Oxford English Dictionary English 11th Edition

isiZulu isofithi

soil pipe

A pipe that conveys the discharge from water closets or similar fixtures to the sanitary sewer system.

Synonym cesspipe

Source definition: Dictionary of Construction Terminology

isiZulu umbhobho wenkucunkucu isiZulu ipayipi yendle

soldier {to strengthen or align}

An upright brick, timber, or other building element. Synonym **soldier beam**

Source definition: Aleck Associates Ltd.

isiZulu **ibhimu yokuqinisa** isiZulu **umshayo wokuqinisa**

soldier beam → soldier

sole plate

A strip of timber which is laid on top of walls to level the underside of flooring joists.

Source definition: A to Z Glossary of Definitions and Terms used in the National Building Regulation Code of Good Practice

isZulu isandlalelo sodonga

sonotube

A large tube of compressed fibre into which wet concrete is poured and left to harden, used to form pillars.

Source definition: Oxforddictionaries.com

isiZulu i-sonotube

spandrel {architecture}

The almost triangular space between one side of the outer curve of an arch, a wall and the ceiling or framework.

Source definition: Concise Oxford English Dictionary

isiZulu isipandela

isiZulu **isipandreli**

spine wall

A load-bearing partition between the front and rear rooms of the house.

Source definition: Aleck Associates Ltd.

isiZulu	udonga
isiZulu	umthangala
isiZulu	ubonda

spiralstaircase → spiralstairway

spiralstairway

Any succession of tapered treads forming a curved stairway which extends as a single flight from one floor to another and which has a minimum radius of curvature of less than 100 mm. Synonym spiral staircase

Source definition: The Concrete & Mortar Handbook

isiZulu isitezi esisongelekayo splay

An oblique surface {bevel or chamfered), as the jambs of a doorway or window; of which one side makes an oblique angle with the other.

Source definition: Aleck Associates Ltd.

intuba
indawo enabile
indawo ethambekeki le
indawo letshekile

splice {steelwork connection}

A steelwork connection forjoining for example two lengths of column to form a longer column.

Source definition: Aleck Associates Ltd.

isiZulu **isidibarisi**

springer {arch}

The lowest stone in an arch, where the curve begins.

Synonym skewback

Source definition: Wikipedia.org

- isiZulu isiqalogobela
- isiZulu isisekelo seashi

isiZulu isipringa

springer \rightarrow skewback

springing line

A line of intersection between the intrados and supports of an arch.

Source definition: Aleck Associates Ltd.

isiZulu isiqondisi se-ashi isiZulu umugqa wokuphambana

sprinkler system {fire extinguisher}

An automatic fire extinguisher installed in a ceiling.

Source definition: Concise Oxford English Dictionary English 11th Edition

isiZulu isicima umlilo

squintbrick

A brick used for forming acute or obtuse corners in brick masonry.

Source definition: Theconstructioncivil.org

isiZulu isitini esisikwe ngokwe-engile isiZulu isitini esinekhona ebukhali

stack vent {ventilation}

A ventilating pipe connecting to a distance stack above the highest connected discharge pipe.

Source definition: A to Z Glossary of Definitions and Terms used in the National Building Regulation Code of Good Practice

isZulu umbhobho wokunghenisa umoya isZulu isiphefemulisi

staircase \rightarrow stairway

stairway

Any part of the building which provides a route of travel between different levels in such buildings and is formed by a single flight or by a combination of two or more flights and one or more intervening landings.

Synonym staircase

Source definition: A to Z Glossary of Definitions and Terms used in the National Building Regulation Code of Good Practice

isiZulu izitebhisi

steelwork

A frame of steel sections supporting other parts of the structure.

Source definition: Aleck Associates Ltd.

isiZulu uphahla lwentsimbi

stile

A vertical piece in the frame of a panelled door or sash window.

Source definition: Concise Oxford English Dictionary English 11^h Edition

isiZulu	isitebhisi sokweqa ucingo
isiZulu	isitebhisi sokweqa uthango

storey

A part of a building which is situated between the top of any floor and the top of the floor next above it, or if there is no floor above it that portion between such floor and the ceiling above it. Synonym **floor**

Source definition: A to Z Glossary of Definitions and Terms used in the National Building Regulation Code of Good Practice

isiZulu isithezi

storm drain \rightarrow storm sewer

storm sewer

A sewer system designed to collect storm water and is separated from the waste water system. Synonym **storm drain**

Source definition: Homebuildingmanual.com

isiZulu umbhobho wamanzi ezikhukhula

strap {support}

A component, usually steel, installed to ensure that walls are connected to and restrained by floors.

Source definition: Aleck Associates Ltd.

isiZulu ibhande

stretcher {brick}

A brick whose longest side is visible on the surface of the wall.

Source definition: Aleck Associates Ltd.

isiZulu isitini esiveza uhlangothi isiZulu umhlubulo westini

string course

A horizontal band or course, as of stone, projecting beyond or flush with the face of a building, often moulded and sometimes richly carved.

Source definition: Dictionary.com

isiZulu ibhande elihlukanisa isakhiwo

strip flooring

A floor that comprises strips of width not less than 35 mm and not more than 90 mm and that are tongued on the one edge and grooved on the opposite edge.

Source definition: A to Z Glossary of Definitions and Terms used in the National Building Regulation Code of Good Practice

isiZulu indawo yaphansi enziwe ngomdweshu indawo yaphansi enziwe ngamathwishi

isiZulu

structural engineering

A branch of civil engineering dealing primarily with the design and construction of structures, such as bridges, buildings, dams.

Source definition: Meriam-Webster.com

isiZulu ubujiniyela bezakhiwo

structural glass

A glass which is cast in the form of cubes, rectangular blocks, tile, or large rectangular plates; used widely for the surfacing of walls.

Source definition: Thefreedictionary.com

isiZulu isakhiwo sengilazi

stucco {plaster}

A type of plaster used for covering walls and ceilings, especially one that can be formed into decorative patterns.

Source definition: Dictionary.cambridge.org

isiZulu umhlobiso we-stucco

This gazette is also available free online at www.gpwonline.co.za

stud {upright post}

An upright post in the framework of a wall for supporting sheets of lath, drywall, or similar material.

Source definition: Thefreedictionary.com

isiZulu	iqhosha
isiZulu	isitadi
isiZulu	isibonda
isiZulu	insika

sump

A pit in a basement floor which collects water and into which a sump pump is placed to remove water.

Source definition: Beaufortonline.com

isiZulu isampu

surveying

The setting out on the ground of the positions of proposed construction or engineering works.

Source definition: Collinsdictionary.com

isiZulu **ukuhlola**

sway brace

Metal straps or wood blocks installed diagonally on the inside of a wall from bottom to top plate, to prevent the wall from twisting, racking, or falling over 'domino" fashion.

Source definition: Homebuildingmanual.com

isiZulu isiqinisi sokutengatenga isiZulu isizinzisi sokutengatenga

swing door

A door that can be pushed open from either side and that swings shut when it is released.

Source definition: Meriam-Webster.com

isiZulu umyango ojikelezayo

Т

tack weld

Short intermittent welds made to hold components in place before full welding is begun.

Source definition: Collinsdictionary.com

isiZulu ukushisela

tail beam {support}

A relatively short beam or joist supported in a wall on one end and by a header at the other.

Synonym tail joist

Source definition: Homebuildingmanual.com

isiZulu insika lencane

tail joist → tail beam

tandem roller {road}

A type of road roller in which the front and back wheels consist of rollers of about the same diameter.

Source definition: Collinsdictionary.com

isiZulu ugandaganda

tenon

A piece that is cut so that it sticks out from the end of a piece of wood and can be fitted into a hole called a mortise in another piece of wood to join them together.

Source definition: Macmillan English Dictionary

isiZulu ikhinqela isiZulu ithenoni

thatch roof

A roof covering made of straw, red palm leaves, or similar material fastened together to shed water and provide thermal insulation.

Source definition: Dictionary of Construction Terminology

isiZulu uphahla lotshani

theodolite

An optical instrument used by land surveyors for surveying and by engineers and builders for setting out lines and angles on the ground.

Source definition: Aleck Associates Ltd.

isiZulu into okuklanywa ngayo izwe

tie beam {connection}
A horizontal timber or the like for connecting two structural members to keep them from spreading apart, as a beam connecting the feet of two principal rafters in a roof truss.

Source definition: www.dictionary.com

isiZulu isibambamishayo

isiZulu ifindo yomshayo

tile

A thin slab or bent piece of baked clay, sometimes painted or glazed, used for various purposes, as to form one of the units of a roof covering, floor, or revetment.

Source definition: Dictionary.com

isiZulu	ithayela
is⊠ulu	ubumba olushisiwe
isiZulu	ubumba oluphekiwe
isiZulu	uhlobo lwesitini sokufulela

tower crane

A crane with a fixed vertical mast that is topped by a rotating boom and equipped with a winch for hoisting and lowering loads.

Source definition: Dictionary of Construction Terminology

isiZulu umshini wokufula izimpahla ezisindayo

transom → transome

transome

A horizontal member injoinery, for example the part of the frame between an upper and a lower window. Synonym transom

Source definition: Aleck Associates Ltd.

isiZulu itransomi

transportation engineering

A branch of engineering dealing with planning, designing, estimation, construction, operation, maintenance, rehabilitation and management of transportation infrastructure for movement of people and goods from one place to the other safely, timely, conveniently, comfortably, economically by using various modes like highways, railways, air ways, water ways and pipe ways also.

Source definition: Tem-uet.blogspot.com adapted

isiZulu ubujiniyela bezokuthutha

trap {pipe)

A U-shaped pipe below plumbing fixtures designed to create a water seal and prevent sewer odours and gases from being released into the habitable areas.

Sourcedefinition: Beaufortonline.com

isiZulu umbhobho wokuvikela iphunga isiZulu umbhobho wokuvikela ukunuka

tread {stairway}

The horizontal upper surface of a step in a stair, on which the foot is placed.

Source definition: Dictionary.com

isiZulu **isinyathelo**

trimmer {*joist*} *A joist which carries extra loads, for example, those due to an opening or partition.*

Source definition: Aleck Associates Ltd.

isiZulu isifekethiso

truss

A prefabricated rigid framework used for roof and floor construction.

Source definition: ehow.com

isiZulu	amakabha	
isiZulu	uhlaka lophahla	
isiZulu	amabhanuko	

turbine

A machine in which the energy of a moving fluid, e.g. water, or wind is converted into mechanical energy.

Source definition: Collins English Dictionary

- isiZulu ithebhani
- isiZulu umshiniwokuphehla ugesi isiZulu umshiniophendulwa amanzi

turret

A small tower at the comer of a building or wall, especially of a castle. Source definition: Concise Oxford English Dictionary English 11th Edition

isiZulu umbhoshongo

U

underpinning {support}

The process of supporting the existing structure for renewing or repairing the lower walls or foundations.

Source definition: Theconstructioncivil.org

isiZulu ukuqinisa ubonda _{Synonym} ukuqinisa udonga

urbanengineering

A branch of engineering that deals with the operation and problems; as laying out additions and parks, and constructing and maintaining sewer systems, waterworks, and pavements peculiar to urban life.

Source definition: Meriam-Webster.com

isiZulu ubunjiniyela basedolobheni

V

valley {roof or wall}

An internal angle formed by the intersecting planes of a roof, or by the slope of a roof and a wall.

Source definition: Concise Oxford English Dictionary English 11th Edition

isiZulu **isigodi**

valley rafter {roof}

The rafter that follows the line of the valley and connects the ridge to the wall plate along the line where the two inclined, perpendicular sides of the roof meet.

Source definition: Dictionary of Construction Terminology

isiZulu ikhabha isZulu ikapa elifishane

vault

A roof in the form of an arch or a series of arches, typical of churches and other large, formal buildings.

This gazette is also available free online at www.gpwonline.co.za

Source definition: Concise Oxford English Dictionary 11th Edition

isiZulu uphahla oluyingungu

veneer

A thin decorative covering of fine wood applied to a coarser wood or other material.

Source definition: Concise Oxford English Dictionary English 11th Edition

isiZulu isembozakuhlobisa ngokhuni

vent {circulation}

A pipe built into a drainage system to provide air circulation, thus preventing siphonage and back pressure from affecting the function of the trap seals.

Source definition: A to Z Gbssary of Definitions and Terms used in the National Building Regulation Code of Good Practice

isiZulu imbobo isiZulu isikhala

veranda

A large, open porch, usually roofed and partly enclosed, as by a railing, often extending across the front and sides of a house.

Source definition: Dictionary.com

isiZulu **uvulande**

vitrolite {clear glass}

Panels formed of clear glass with colour glass laminated to one side and used as a wall veneer.

Source definition: Wentworthsstudio.com

isiZulu ivithrolayithi

voussoir

A wedge-shaped or tapered stone used to construct an arch.

Source definition: Concise Oxford English Dictionary English 11th Edition

isiZulu	i-voussoir
isi Zul u	itshe le-ashi
isiZulu	itshe lokwakha
isi Z ulu	itshe legobela
isi Z ulu	itshe lengungu

W

wainscot

The bottom part of the walls in a room, especially when it is covered with wood.

Source definition: Macmillan English Dictionary

isiZulu umhlobisopulangwe ngaphansi kwebonda isiZulu umhlobisopulangwe ngaphansi kwedonga

wane {defective edge in timber}

A defective edge of a board due to remaining bark or a beveled end.

Source definition: Dictionary of Construction Terminology

isiZului **isici sepulangwe**

waste pipe {plumbing}

A discharge pipe which conveys waste water only.

Source definition: A to Z Glossary of Definitions and Terms used in the National Building Regulation Code of Good Practice

isiZuluumbhobho wezibiisiZuluipayipi yezibiisiZuluipayipi yamanzi angcolileisiZuluumbhobho wenkucunkucu

waste-water engineering

A branch of engineering that deals with the transportation and cleaning of blackwater, greywater, and irrigation water.

Source definition: Wikipedia.com adapted

isiZulu ubunjiniyela bokucitha amanzi angcolile isiZulu ubunjiniyela bokucitha amanzi wenkucunkucu

water seal

The water in a trap which acts as a barrier against the flow of any foul air or gas.

Source definition: A to Z Glossary of Definitions and Terms used in the National Building Regulation Code of Good Practice

isiZulu isivimbeli samanzi

isiZulu isivalosamanzi

water supply system

The system that supplies water throughout a building, including the service pipe(s), distribution and connecting pipes, fittings, and control valves.

Source definition: A to Z Glossary of Definitions and Terms used in the National Building Regulation Code of Good Practice

isiZulu uhlelo lokuba khona kwamanzi isiZulu uhlelo lwamanzi akhona

weep hole {drainage}

An opening at the bottom of a wall which allows the drainage of water.

Source definition: Beaufortonline.com

isiZulu umsele wokumunca amanzi

window box \rightarrow window buck

window buck

A square or rectangular box that is installed within a concrete foundation or block wall. Synonym **window box**

Source definition: A to Z Glossary of Definitions and Terms used in the National Building Regulation Code of Good Practice

isiZulu ibhokisi lefasitela

window frame

A supporting frame for the glass of a window.

Source definition: Google.com

isZulu	ifulemu	lefasitele
isiZulu	ifulemu	lewindi

window sash

The operating or moveable part of a window.

Source definition: A to Z Glossary of Definitions and Terms used in the National Building Regulation Code of Good Practice

- isiZulu iseshi lefasitela
- isZulu iseshi lewindi

wired glass

Sheet glass with wire mesh embedded in the glass to prevent shattering.

Synonym wire glass

Source definition: Dictionary of Construction Terminology

isZulu ingilazi yocingo isZulu ingilazi yothango

wire glass \rightarrow wired glass

wire nut?

A plastic device used to connect bare wires together.

Source definition: A to Z Glossary of Definitions and Terms used in the National Building Regulation Code of Good Practice

isiZulu inathi yocingo isiZulu imuru yocingo

wonderboard

A panel made out of concrete and fibreglass usually used as ceramic tile backing material.

Source definition: A to Z Glossary of Definitions and Terms used in the National Building Regulation Code of Good Practice

isiZulu iwandabhodi

Ζ

zone valve

A device, usually placed near the heater or cooler, which controls the flow of water or steam to parts of the building.

Source definition: A to Z Glossary of Definitions and Terms used in the National Building Regulation Code of Practice

isZulu ivalvu yokulawula ukuhamba kwamanzi

zoning {town planning}?

A system of choosing areas to be developed for particular purposes, such as houses or shops, when planning a town.

Source definition: Dictionary of Contemporary English 6th Edition

isiZulu ukuklanywa komkhakha womhlaba

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DEPARTMENT OF SPORTS, ARTS AND CULTURE

NO. 261

26 March 2021

NOTICE IN TERMS OF THE PUBLICATION OF ENGLISH-ISIZULU ENGINEERING AND CONSTRUCTION TERM LIST FOR PUBLIC COMMENTS

I, Nkosinathi Emmanuel Mthethwa, Minister of Sport, Arts and Culture hereby publish the English-isiZulu Engineering and Construction Term List for public comments.

NE Mthethwa, MP Minister of Sport, Arts and Culture Date: 2-02-03-12



Α

absorption field {plumbing}

A system of trenches containing coarse aggregate and distribution pipes through which septic-tank effluent may seep into the surrounding soil.

Source definition: www.thefreedictionary.com

isiZulu ukumunca

abutment {retaining wall}

A concrete support wall constructed at both ends of a bridge or an arch, in order to resist the horizontal force from the bridge or the arch, support the ends of the bridge span and to prevent the bank from sliding under.

Source definition: Definitions of Civil Engineering Terms (1992)

isiZulu abhuthimenti

isiZulu **insika**

access chamber

An underground chamber enabling access to drains or underground services.

Source definition: Aleckassociates.co.uk amended

isiZulu intuba yokungena

acrow prop {temporary support}

A telescopic prop much used as a temporary support in construction. Source

definition: Aleck associates Ltd.

isiZulu insika yokusekela isikhashana

actuator

A component of machines that is responsible for moving or controlling a mechanism or system.

Source definition: https://enwekipedia.org

isiZulu i-actuator

aerospace engineering

The primary field of engineering concerned with the development of aircraft and spacecraft.

Source definition: Wikipedia.com

isiZulu ubun jniyela bezin dzam shini

aggregate {concrete}

A broad category of coarse particulate material used in construction, including sand, gravel, crushed stone, slag, recycled concrete and geosynthetic aggregates.

Source definition: www.wikipedia

isiZulu	inhlangarisela
isiZulu	umumo ophelele

agriculural engineering

The area of engineering concerned with the design, construction and improvement of farming equipment and machinery.

Source definition: Environmentalscience.org adapted

isiZulu ubunjiniyela bemisebenziyokulima

isiZulu ubunjinjyela ngezolimo

airbrick

A special type of brick that has small holes in it that allow air to go through a wall.

Source definition: Cambridge English Dictionary.org

isiZulu isitini esingerisa umoya

air-condioner condenser

A device or unit used to condense a substance from its gaseous to its liquid state, by

cooling it.

Source definition: Wikipedia.org adapted

isiZulu isijiyisi sokuguqulwa komoya endlini isiZulu isijiyisi sokulingariswa komoya endlini

air conditioning

A system for controlling the humidity, ventilation, and temperature in a building or a vehicle.

Source definition: Concise Oxford English Dictionary

isiZulu	ukuhelwa komoya ukukwulwa
isiZulu	komoya
isiZulu	ukulingansa ubunialo bomova endlini
isiZulu	ukulingariswa komoya endlini

aircrete

A lightweight aerated cement-based material from which easily handled high insulating building blocks are made.

Source definition: Aleck associates Ltd

isiZulu ikhonkolo elilula

air duct

A pipe or channel permitting air to travel through a system, building, or other structure, such as a mine.

Source definition: Collinsdictionary.com

isiZulu **ipayipi yomoya**

air-entrained concrete (complex compound noun)

A concrete used for constructing roads which has about 5% air and is therefore less dense than ordinary good concrete, but it has excellent freeze-thaw resistance.

Source definition: Definitions of Definitions of Civil Engineering Terms (1992)

isiZulu ikhonkoloyokwakhaumgwaqo

alcove

A small area in a room that is created by building part of one wall further back than the rest of the wall.

This gazette is also available free online at www.gpwonline.co.za

Source definition: Macmillan English Dictionary

isiZulu ikhosela ekamelweni isiZulu ikhosela endlini isiZul- igosi elakhiwe odongeni u

anchor {for stability}

Any fastener (usually metal) used to attach parts, such as joists, trusses, posts, etc., to masonry or masonry materials.

Source definition: Beaufortonline.com

isiZulu	isankora
isiZulu	ihange

ant cap

A termite barrier (shield), usually of galvanised iron, placed over piers and dwarf walls to control the entry of termites.

Source definition: Construction Dictionary of Building Terms

isiZulu isivimbeli intuthwane

applied engineering

The field concerned with the application of management, design, and technical skills for the design and integration of systems, the execution of new product designs, the improvement of manufacturing processes, and the management and direction of physical and/or technical functions of a firm or organisation.

Source definition: Wikipedia.org

isiZulu	ubunjiniyela	bokuqondisa
isiZulu	ubunjiniyela	bokusentshenziswa

arcade

A covered passage at the side of a building.

Source definition: Macmillan English Dictionary

isiZulu	imbubhe
isiZulu	isakhiwo esinegobela
isiZulu	i-akheyidi

architect

Someone who plans, designs, and reviews the construction of buildings. Source

definition: Wikipedia

isiZulu	umdwebizakhlwo isazi
siZulu	sokwakha
isiZulu	umqambi wemumo wendlu
isiZulu	umklamiwokwakhiwa kwezindlu

architectural engineering

The branch of engineering that deals with the construction of buildings (as distinguished from architecture as a design art).

Source definition: Thefreedictionary.com

isiZulu	ubunjiniyela bokwakhiwa kwezIndu
isiZulu	ubunjiniyela bokumiswa kwezakhiwo zezIndlu
isiZulu	ubunjiniyela boklama

architecture

The art of planning, designing, and constructing buildings.

Source definition: Collinsdictionary.com adapted

isiZulu indlela yokhwakha

isiZulu ukwakhiwa kwezindu

isiZulu ukumiswa kwezakhiwo

architrave

A frame around a doorway or window.

Source definition: Concise Oxford English Dictionary

isiZulu	ukuhlobisa	ngamapulangwe	okuzungeza	umyango
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isiZulu ukuhlobisa ngamapulangwe okuzungeza ifasitela

areaway

A sunken space affording access, air, and light to a basement.

Source definition: Mariam-Webster.com

isiZulu indawo embelekile isiZulu indawo eyisigobe

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area well

The space created by a corrugated metal or concrete barrier walls installed around a basement window to back the earth.

Source definition: Homewyse.com adapted

isiZulu i-eriyaweli

arris

A sharp edge formed when two planes or surfaces meet. Synonym **arris edge**

Source definition: Beaufortline.com

isiZulu i-arisi

arris edge \rightarrow arris

as-built drawing

A construction drawing revised to show significant changes made during the construction process, usually based on marked-up prints, drawings and other data furnished by the contractor or the engineer.

Source definition: Definitions of Definitions of Civil Engineering Terms (1992)

isiZulu ukubuyekezwa komdwebosakhiwo isiZulu ukubuyekezwa kweplani yesakhiwo

ashpit

A receptacle in the bottom of a fireplace, or the like, for the accumulation of ashes.

Source definition: Dictionary.com

isiZulu	isifoco somlotha
isiZulu	umgodi womlotha
isiZulu	isikhoxe somlotha

astragal

An applied moulding attached most commonly to the meeting edge of doors.

Source definition: Allegion

isiZulu **isihlanganisimagilasi esivundlile** isiZulu **isihlanganisimagilasi esiqumile** isiZulu **i-astragali**

atrium

A large open hall that goes up through all the levels of a building to the roof, which is usually made of glass.

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Source definition: Macmillan English Dictionary

isiZulu i-athriyamu

attic

A space found directly below the pitched roof of a house or other building.

Source definition: Wikipedia adapted

isiZulu	i-athiki
isiZulu	igumbimkhathi
isiZulu	igumbi eliphezulu endlini

autonomous vehicle {electrical engineering}

A motor vehicle that uses artificial intelligence, sensors and global positioning system coordinates to drive itself without the active intervention of a human operator.

Source definition: Wikipedia.org.adapted

isZulu imoto ezihambelayo

awning window

A window consisting of several top-hinged sections arranged in a vertical series, operated by one or more control devices that swing the bottom edges of the sections outward, and designed especially to admit air while excluding rain.

Source definition: Meriam-Webster.com

isZulu	ifasitela lokusitha	a ilanga
isiZulu	iwindi lokusitha i	langa

axed arch

An arch made of bricks that have been roughly cut into a wedge shape.

Source definition: Thesciencedictionary.org

isZulu igobela

В

back siphonage

The backward flow of used, contaminated, or polluted water from a plumbing fixture or vessel into the potable water supply, often due to negative pressure in a pipe.

Source definition: www.dictionaryof construction.com

isZulu umbhobho wukomunca amanzi emuva isZulu umbhobho wokuthelelela emuva kwamanzi

back vent {plumbing}

A ventilating pipe attached to a waste pipe on the sewer side of its trap to prevent siphonage.

Source definition: Meriam-Webster.com

isiZulu ipayipi yokungenisa umoya

balcony

A deck projecting from the wall of a building above ground level.

Source definition: Beaufortline.com

isZulu uvulande ophezulu Synonym uvulande osesitezi

balloon framed wall complex

The structure of the building holding up the walls, floors, and roof.

Source definition: Study.com

isiZulu udonga oluyibhaluni isiZulu ubonda oluyibhaluni

baluster

A short pillar forming part of a series supporting a rail or coping.

Source definition: Concise Oxford English Dictionary

isiZulu	ibhalusta

isiZulu belusithe isiZulu belusitha

balustrade

A rail and the row of balusters or posts that support it, as along the front of a gallery.

isiZulu ibhalustredi

isiZulu	sibambelelo sokuzivikela nokuzisiza esitezi
Synonym	isibambelelo esakhiwe esitezl sokuzivikela ukuwa

banister {stairway}

A handrail with supporting posts used alongside a stairway.

Synonym bannister

isiZulu isibambelelosokuvimbelaabantu bangawi esitezi isiZulu ibharista

banrister \rightarrow banister

barge {support}

One of the sloping pieces of wood that supports a roof.

Source definition: Collins English Dictionary.com

isiZulu isikhoco sendlu

isiZulu **bhaji**

barge board

A board which hangs from the projecting end of a roof, covering the gables; often elaborately carved and ornamented in the Middle Ages.

Source definition: ThoughtCo.com

isiZulu uqwembe lwesikhoco sendlu

baseboard

A trim board placed against the wall around the room next to the floor. Synonym **skirting**

Source definition: Homebuildingmanual.com

isiZulu **isikeyiti**

basecourse

The bottom layer of material laid down in the construction of a pavement.

Source definition: Definitions of Civil Engineering Terms (1992)

isiZulu isandlalelo sesisekelo

base shoe {flooring}

A narrow moulding often of quarter round joining the bottom of a baseboard and the floor.

Source definition: Meriam-Webster.com

isiZulu	umhlobiso wendawo yaphansi
isiZulu	isisekelo sendawu yaphansi

bat {*brick*}

A brick cut transversely so as to leave one end whole.

Source definition: Dictionary.com

isiZulu ibhathi

batt {*fibreglass*} *A piece of fibreglass used to insulate buildings.*

Source definition: Google.com

isZulu ibheti

batten {wood}

A long strip of wood that is fixed to something to strengthen it or to hold it firm.

Source definition: Collins Cobuild English Dictionary adapted

isiZulu	ithandela
isiZulu	ibhathini
isiZulu	isikhonkhwane sokukhonkhotela

batter {*wall*}

An inward slope from bottom to top of a wall face.

Source definition: Definitions of Civil Engineering Terms (1992)

isiZulu	ibhatha
isiZulu	utsheku
isiZulu	ukwehlela kophahla
isiZulu	ukutshekela kophahla
isiZulu	udonga lokutsheka
isiZulu	ubonda lokutsheka

bay window

A window built to project outwards from an outside wall.

Source definition: Google.com

iwindi eliphumela ngaphandle
ifasitela eliphumela ngaphandle
iwindiqhunsu
ifasitelaqhunsu

beam {*support*}

A long thick bar of wood, metal, or concrete, especially one used to support the roof of a building.

Source definition: www.wikipedia.com

isiZulu umshayo isiZulu umjanjatho isiZulu ibhumu

bearing wall

A wall that bears the weight of the house above said wall, resting upon it by conducting its weight to a foundation structure.

Source definition: Wikipedia

isiZulu	udonga oluyisisekelo
isiZulu	ubonda oluyisisekelo

berm

An artificially placed continuous ridge or bank of earth, usually along a roadside.

Source definition: www.Dictionary of Construction Terminology

.

isiZulu	udonga
isiZulu	unqenqema
isiZulu	ukhalo

bevel {*instrument*}

An instrument consisting of two rules or arms jointed together and opening to any angle for drawing angles or adjusting surfaces to be cut at an angle.

Source definition: Meriam-Webster.com

isiZulu ibheveli isiZulu isikwele ibheveli

bifolddoor

A door that slides open, made from a series of panels that fold up against the wall like a concertina.

Source definition: vibrantdoors.co.uk

isiZulu umyango osongayo

billet

Each of a series of short cylindrical pieces inserted at intervals in Norman decorative mouldings.

Source definition: Concise Oxford English Dictionary

isiZulu	itiyela
isiZulu	ibhilethi

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bitumen

A black, sticky substance such as tar or asphalt, used for making roads and roofs.

Source definition: Dictionary.cambridge.org

isiZulu itiyela isiZulu isitafutafu esimnyama esakha umgqwaqo

bleeding {concrete}

A form of segregation where some of the water in the concrete tends to rise to the surface of the freshly placed material.

Source definition: www.concrete.org.uk

isZulu ukucwenga kwe khonkolo isZulu ukwahlukaniswa kwe khonkolo

blinding {layer of concrete}

A layer of lean concrete usually 2 to 4 inches thick, put down on soil such as clay to seal it and provide a clean bed for reinforcement to be laid on.

Source definition: Definitions of Civil Engineering Terms (1992)

isiZulu ikhebakheba

blind nailing

A type of nailing performed so that the nailhead cannot be seen on the face of the work.

Source definition: Dictionary of Construction Terminology

isiZulu **umfutho ovaliwe** isiZulu **ukushayela okuvaliwe**

block

A small wooden piece to brace framing members or to provide a nailing base for gypsum board or paneling.

Source definition: Homebuildingmanual.com

isiZulu ibhloko isiZulu ibhlokwe

block out <n.>

A space where concrete is not to be placed, in a concrete structure which is under construction.

Source definition: Thefreedictionary.com adapted

isiZulu indawo engafuni ikhonkolo

indawu engathelwa ikhonkolo

blotter

A drilling into earth to bring up samples of the soil.

Source definition: Definitions of Civil Engineering Terms (1992)

isiZulu ibhulota isiZulu i-blotter

blueprint <n.>

A reproduction of a technical drawing, documenting an architecture or an engineering design, using a contact print process on light-sensitive sheets.

Source definition: Wikipedia

isiZulu isifanekisosentoezokwakhiwa

isizulu isifanekiso somshini

blue staking <n.>

The act of marking underground facilities such as electric, gas, water, telephone, cable or other underground facilities so that these networks are not damaged during excavation, trenching or digging activities.

Source definition: Arizona Corporation Commission

isiZulu isigxobo isiZulu isikhonkwane

bonnet roof

A roof having a double slope on all four sides, the lower slope being less steep than the upper slope; often extends over an open-sided raised porch to provide excellent shade for the house and protection against rain.

Source definition: Thefreedictionary.com

isiZulu uphahla lobhonethi

boom {mounted on e.g. a truck, vehicle} A truck used to hoist heavy material up and into place.

Source definition: Homebuildingmanual.com

isiZulu ugongolo olwakhelwe ukuvala indlela

boom {access control}

A bar, or pole pivoted to allow the boom to block vehicular access through a controlled point.

Source definition: Wikipedia

isiZulu ugongolo olwakhelwe ukuvalaindela

bottom pate

The horizontal beam on which the studs of a partition rest.

Source definition: Meriam-Webster.com

isiZulu **ibhimu evundlayo** isiZulu **ibhimu enqamulayo**

bowstring truss

A structural truss consisting of a curved top chord meeting a bottom chord at each end.

Source definition: Dictionary.com

isiZulu uphahla lemichilo

breaker panel

A steel box that holds multiple circuit breakers wired to circuits that distribute power throughout one's home.

Source definition: HomeDepot.com

isiZulu bhokisi lukagesi

brick guard

A steel mesh panel used on scaffolding to make sure that loose bricks cannot fall off the scaffold.

Source definition: Aleck Associates Ltd. amended

isiZulu isivimbeli sesitini

brick ledge

The portion of a foundation wall where brick (veneer) rests.

Source definition: Dictionary of Construction Terminology

isZulu ishalafu lwesitini

isiZulu ileji lwesitini

brick lintel

The angle that brick rests on, especially above a window, door, or other opening.

Source definition: Honmebuildingmanual.com

isiZulu ilenteli

brick mould

A strip of material used to close the small gap between a brick wall and the frame of a door or window set into the wall.

Source definition: www.wisegeek.com

isiZulu **i-brickmould**

brick mould

A templet (used by a bricklayer, plasterer, in masonry, etc.) into which a liquid substance is cast or pressed and allowed to cool or harden so as to take a particular shape or pattern.

Source definition: Shorter Oxford English Dictionary

isZulu ifolomo yezitini

brick tie

A small architectural element that is used to connect two brick walls across a narrow cavity or to bind a brick wall to a wood or steel frame.

Source definition: www.wisegeek.com

isiZulu	isiqinisa	ubonda
isiZulu	isiqinisa	udonga

bridge

A structure that is built over a river, road, or railway to allow people and vehicles to cross from one side to the other.

Source definition: Dictionary.cambridge.org

isiZulu **ibhuluho**

bridge deck

The load-bearing floor of a bridge, that carries and spreads the loads to the main beams.

Source definition: Definitions of Civil Engineering Terms (1992)

isiZulu itafula lebhuloho

bridging {stability and load distribution}

A method of lateral bracing between joists for stiffness, stability, and load distribution.

Source definition: Dictionary of Construction Terminology

isiZulu ukuqinisa

buck {subframe}

The wood or metal subframe of a door, installed in a wall to accommodate the finished frame.

Source definition: Dictionary of Construction Terminology

isiZulu uphahla oluncane isiZulu **ifulemu elincane**

building code

Municipal regulations that set forth standards and requirements for construction, maintenance, and occupancy of buildings in the interest of health, safety, and welfare of the public.

Source definition: BusinessDictionary.com

isiZulu imithetho yezokwakha

building paper

A heavy paper used especially in the construction of frame buildings to block draughts, for insulation, etc.

Source definition: www.dictionary.com

isiZulu iphepha lokwakha

built-up roof

A usually flat or slightly sloped roof that is covered with a special material applied in sealed, waterproof layers.

Source definition: www.dictionary.com

isiZulu uphahlaoluphakameyo

butterfly roof

A roof having more than one slope, each descending inward from the eaves.

Source definition: www.dictionary.com

isiZulu uphahla i-butterfly

buttjoint

A joint formed by two pieces of wood or metal united end to end without overlapping.

Source definition: www.dictionary.com

isiZulu ukuhlangana okuthingquphu

buttress {reinforcement}

An architectural structure built against or projecting from a wall which serves to support or reinforce the wall.

Source definition: www.wikipedia.com

isiZulu **umthangala** isiZulu **insika eqinisayo**

buttress → counterfort

bypass {road}

A road or highway that avoids or "bypasses" a built-up area, town, or village, to let through traffic flow without interference from local traffic, to reduce congestion in the built-up area, and to improve road safety.

Source definition: en.wikipedia.org

isiZulu indlela edlula eceleni isiZulu indlela enqamulayoeceleni

bypass doors

Doors that slide by each other and commonly used as closet doors.

Source definition: Homebuildingmanual.com

isZulu imnyango eshelelezayo

С

 $CAD \rightarrow$ computer-aided design

caisson {a watertight retaining structure}

A watertight boxlike structure or chamber, made of wood, steel, or concrete usually sunk excavating within it, for the purpose of gaining access to bed of a stream and placing the foundations at prescribed depth and which subsequently forms part of the foundation itself.

Source definition: Theconstructioncivil.org

isiZulu ibhokisi umuntu asebenzela kulo phansi kwamanzi

camber {arched surface}

A slightly arched surface of a road to compensate for anticipated deflection or to allow for drainage.

Source definition: Definitions of Civil Engineering Terms (1992)

isiZulu ukuphakama komgwaqo

cantilever {beam}

A beam which is securely supported at one end, and hangs freely at the other.

Source definition: Definitions of Civil Engineering Terms (1992)

isiZulu insika elengayo isiZulu ibhimu elengayo

cased window \rightarrow sash window

casement

A window sash opening on hinges that are generally attached to the upright side of its frame. Synonym **casement window**

Source definition: www.dictionary.com

- isiZulu iwindi elivukele eceleni
- isiZulu ifasitela elivulekele eceleni
- isiZulu iwindi lekheyisimente
- isiZulu ifasitela lekheyisimente

casement window → casement

cast-in-place <adj.>

That is to be assembled or cast on site rather than prefabricated in a factory, e.g. a beam, a pile or other construction material. Synonym cast-in-situ

Source definition: Quora.com amended

isiZulu ehlanganiswa endaweni yokwakha

 $cast-in-situ \rightarrow cast-in-place$

caulking {sealing}

The processes and material (also called sealant) to seal joints or seams in various structures and some types of piping.

Source definition: Wikipedia.org

isiZulu ukunamathelisa isZulu ukugcwalisa imiveve ngetiyela

cavity wall

A wall that consists of two separate walls with a space between them.

Source definition: Collins English Dictionary

isiZulu ubonda elinombhobho isiZulu undonga elinombhobho

ceiling

An overhead interior surface that covers the upper limits of a room.

Source definition: Wikipedia adapted

isiZulu isilingi

celotex {fibrous board}

A black fibrous board that is used as exterior sheathing.

Source definition: Dictionary of Construction Terminology

isiZulu iselotheksi

cement mortar

A workable paste used to bind building blocks such as stones, bricks, and concrete masonry units together, fill and seal the irregular gaps between them, and sometimes add decorative colours or patterns in masonry walls.

Source definition: Wikipedia.org

isiZulu udaka

ceramic tile

A tile made from clay that has been permanently hardened by heat, often having a decorative glaze.

Source definition: Google.com

isiZulu ithayela iseramikhi

 $cesspipe \rightarrow soilpipe$

chase

A groove or space in walls or through floors of a building for piping or ducts.

Source definition: Wikipedia

isiZulu umsele wombhobho

chemical engineering

The branch of engineering concerned with the design and operation of industrial chemical plants.

Source definition: Concise Oxford English Dictionary

isiZulu ubunjiniyela bekhemikhali

chipboard

A building material made from wood chips compressed and bound with synthetic resin. Source

definition: www.yourdictionary.com

isiZulu **ibhodi** isiZulu **ipulangwe yezwibela**

civilengineering

A professional engineering discipline that deals with the design, construction, and maintenance of the physical and naturally built environment, including works like roads, bridges, canals, dams, airports, sewerage systems, pipelines and railways.

Source definition: Wikipedia.org

isiZulu ubunjiniyela bezokhwaka

cladding

The separately applied exterior finish of a framed building.

Source definition: Aleck Associates Ltd

isiZulu	ukugqokisa
isiZulu	ukwembesa

clamp→ cramp

clerestory

A large window or series of small windows along the top of a structure's wall, usually at or near the roof line.

Source definition: Thoughtco.com adapted

isiZulu iklerestori

clerestory roof

A roof with a vertical wall which sits between the two sloping sides, which features a row of windows.

Source definition: www.build.com adapted

isiZulu uphahla loklerestori

coastal engineering

The study of the processes ongoing at the shoreline and construction within the coastal zone.

Source definition: Coastal.udel.edu adapted

isiZulu ubunjiniyela bogu isiZulu ubunjiniyela basegwini

collapsible door

A door which can be opened or closed by slight pull orpush.

Source definition: https://gharpedia.com adapted

isiZulu umyango obocozekayo isiZulu umyango osongekayo

collar {roof}

A preformed flange placed over a vent pipe to seal the roofing above the vent pipe

0.1
opening.

Source definition: Homebuildingmanual.com amended

isiZulu isivimbela ukuvuza

compaction {construction material}

The elimination of voids in construction materials, as in concrete, plaster, or soil, by vibration, tamping, rolling, or some other method or combination of methods.

Source definition: Dictionary of Construction Terminology

isiZulu ukugingqika ukugoqeka isiZulu

computer-aided design

A computer technology that designs a product and documents the design's process. Acronym **CAD**

Source definition: www.techopedia.com

isiZulu ubuklama ngekhompyutha

computer engineering

A discipline that integrates several fields of electrical engineering and computer science required to develop computer hardware and software.

Source definition: Wikipedia.org adapted

isiZulu ubunji niyela bezekhompyutha

concrete

A heavy, rough building material made from a mixture of broken stone or gravel, sand, cement, and water.

Source definition: Google.com

isiZulu **ukhonkolo usemende** isiZulu

concrete pump

A piece of construction equipment designed to pump concrete through a hose, originating from a pump mounted on a truck or trailer.

Source definition: Construction & Home Renovation Glossary.com

isiZulu isifutho sekhonkolo isZulu iphampu

conduit

A pipe used to protect wiring or another venerable construction product or component.

Source definition: Construction & Home Renovation Glossary.com

isiZulu umbhobhowecingolukagesi Synon ikhonduyithi ym

construction

The building of things such as houses, factories, roads and bridges.

Source definition: Collins Cobuild

isiZulu **ukwakha**

construction engineering

A specialised branch of civil engineering concerned with the planning, execution, and of construction operations for projects such as highways, dams, utility lines, and buildings.

Source definition: Thefreedictionary.com

isiZulu ubunjiniyela bezokwakha

control engineering

The study and design of systems, typically of a mechanical or electrical nature, which control the operation of machinery.

Source definition: Oxforddictionaries.com

isiZulu ubunjiniyela bokuqondisa isiZulu ubunjiniyela bokuphatha

control joint

A groove which is formed, sawn, or tooled in a concrete or masonry structure to regulate the location and amount of cracking and separation resulting from the dimensional change of different parts of the structure, thereby avoiding the development of high stresses.

Source definition: www.en.wikitionary.org

isiZulu isivekela ukdubuka isiZulu isivikela kutlewuka

coping {protective cap)

The protective top member of any vertical construction such as a wall or chimney.

Source definition: Dictionary of Construction Terminology

isiZulu isisibekelwana sokuvimbela

corbel

A structural piece of stone, wood or metal jutting from a wall to carry a superincumbent weight.

Source definition: wikipedia.com adapted

isiZulu ikhobheli

comer bead

A material that is used on the corners of walls in drywall construction to make the corners crisp and professional looking.

Source definition: www.wisegeek.com

isiZulu isiklamuzelisimakhona

cornice

A decorative border of wood or stone at the edge of the ceiling of a room or under the roof of a building.

Source definition: www.dictionary.cambridge.com

isiZulu ipulangwe lonqenqema lesilingi isiZulu ikhonisi

counterfort

A strengthening buttress at right angles to a retaining wall, bonded to it to prevent overturning or to increase its bending strength. Synonym **buttress**

Source definition: www.collinsdictionary.com

isiZulu insikaeqinisayo

course {roof} A row of shingles or roll roofing running the length of the roof.

Source definition: Dictionary of Construction Terminology

isiZulu ikhosi

cramp

Metal component built into masonry to join it to another member, for example a window frame ('frame cramp'), or to join two masonry units together. Synonym **clamp**

Source definition: Aleck Associates Ltd

isiZulu ikilempu

crane

A mechanically operated device which is located on or around a building site for the purpose of lifting building components or equipment into position.

Source definition: Construction Glossary of Building Terms

isiZulu	unkaxa
isiZulu	isicakuli
isiZulu	umboko
isiZulu	uibha
isiZulu	umshiniwokufula izimpahla ezisindayo

crank

A device which allows movement to go between parts of a machine or which changes backward and forward movement into circular movement.

Source definition: www.wikipedia.com adapted

isiZulu	isigwedlo
siZulu	ikrenki

cricket {roof}

A device used at roof intersections to divert water.

Source definition: Beaufortonline.com

isiZulu ukhalo lophahla

cripple {building frame}

A structural element that is shorter than usual, as a stud above a door opening or below a window sill. Source definition: Thefreedictionary.com

isiZulu insikalencane

cripple jack rafter → cripple

cross bridging

A diagonal bracing between adjacent floor joints, placed near the centre of the joist span to prevent joists from twisting.

Source definition: Dictionary of Construction Terminology

isiZulu ukuqinisa okuphambanayo isiZulu kuqinin okunqmuayo

u

cross gable

A roof that has two or more gable rooflines that intersect.

Source definition: http://realtormag.realtor.org.adapted

isZulu uphahla lokugamanxana kwamagebula

cross hipped roof

A type of a hip roof that has two intersecting hip sections that run perpendicular to each other.

Source definition: www.chasinggreen.org

isiZulu uphahlaoluyisiphambano uphahlaolunqamulayo

isiZulu

culvert

A structure that allows water to flow under a road, railroad, trail, or similar obstruction from one side to the other side.

Source definition: Wikipedia.org

isiZulu umsele wokudonsa amanzi emgwaqeni

cupola {roof}

A small, decorative structure built on the roof of a house that is often placed over an attached garage and may also be used for ventilating purposes.

Source definition: Beaufortline.com

isiZulu ikhaphola

curb roof

A roof having two or more slopes on each side of the ridge.

Source definition: Homebuildingmanual.com

isiZulu	uphahlaolutshekile
isiZulu	uphahla lonqenqema

curing {concrete}

The process of maintaining satisfactory moisture and temperature conditions for freshly placed concrete for some specified time for proper hardening of concrete.

Source definition: Civilengineeringx.com

isZulu ukuqinisa ikhonkolo

custodial lock {windowhardware}

A window hardware only operable with a tool or key.

Sourcedefinition: Gbssary of Industry Terms

isiZulu isikhiya sefasitela

dado (wall)

The lower part of the wall of a room, below about waist height, when decorated differently from the upper part.

Source definition: Oxforddictionaries.com

isZulu ibhande elizungeza udonga endlini isZulu i-dado

damper

A moveable metal plate in a flue or chimney, used to regulate the draught and so control the rate of combustion.

Source definition: Concise Oxford English Dictionary

isiZulu insimbi evimbela umoya wokuvuthisa umlilo

damp-proof course

A type of moisture control applied to building walls and floors to prevent moisture from passing into the interior spaces. Abbreviation **DPC**

Source definition: Wikipedia

isiZulu udamkosi isithiyamswakama isiZulu

dead bolt

An exterior security lock installed on exterior entry doors that can be activated only with a key or thumb-tum.

Source definition: Dictionary of Construction Terminology

isiZulu umshudo

design engineering

A discipline that creates and transforms ideas and concepts into a product definition that satisfies customer requirements.

Source definition: Innovationexcellence.com adapted

isiZulu	ubunjIniyela bezomqopho
isiZulu	ubunjiniyela bezomdwebo
isiZulu	ubunjiniyela bezokuqamba
isiZulu	ubunjiniyela bezoklama

die {specialised tool}

A specialised tool used in manufacturing industries to cut or shape material mostly using a press.

Sourcedefinition: Wikipedia

isiZulu ifolomu

domed roof

An architectural element that resembles the hollow upper half of a sphere.

Source definition: Wikipedia

isiZulu uphahla olugobongo

dormer {window}

An opening in a sloping roof, the framing of which projects out to form a vertical wall suitable for windows or other openings.

Source definition: Beaufortline.com

isiZulu ifasitela legumbimkhathi

isiZulu ifasitelaelusephahleni

downpipe downspout

downspout

A pipe on the side of a building that carries rain water down from the roof to the ground.

Synonym downpipe

Source definition: Macmillan English Dictionary

isiZulu umbhobhowegadasi? isiZulu ipayiphi ewewukayo

DPC → damp-proof course

drain tile

A perforated, corrugated plastic pipe laid at the bottom of the foundation wall and used to drain excess water away from the foundation.

Source definition: Dictionary of Construction Terminology

isiZulu umbhobho wokudonsa amanzi dry-

packed concrete

A strong mixture of cement and sand damped with small amount of water, used to fill holes in existing walls, for example in underpinning.

Source definition: Aleck Associates Ltd

isiZulu ikhonkoloyokuvala imigodi

drywall

A board made of several plies of fiberboard, paper, or felt bonded to a hardened gypsum plaster core and used especially as wallboard.

Source definition: Mariam-Webster.com

isiZulu udonga lwebhodi

Dutch gable roof

A gable whose sides have a shape made up of one or more curves and has a pediment at the top.

Source definition: Wikipedia

isiZulu uphahla lwegebula lwesiDutch

dwarf wall

A low wall, not as high as the story of a building, often used as a garden wall or fence.

Source definition: Thefreedictionary.com

isiZulu udonga elifishane isiZulu ubonda elifishane

Е

earthquake engineering

An interdisciplinary branch of engineering that designs and analyses structures, such as buildings and bridges, with earthquakes in mind and its overall goal is to make such structures more resistant to earthquakes. Synonym seismic engineering

Source definition: Wikipedia.org adapted

isiZulu ubunji niyela bezoku zama zama kwomhaba

ECSA→EngineeringCouncil ofSouthAfrica

egress window {e.g. in case of an emergency}

A window large enough, as defined by local business codes for entry or exit in case of an emergency.

Source definition: Alure.com adapted

isiZulu fasitelaeliphumelangaphandle

elbow {plumbing}

A sharply bent or fabricated angle fitting, usually of pipe, conduit, or sheet metal.

Source definition: Dictionary of Construction Terminology

isiZulu umbhobho oyindololwane

electronics engineering

A discipline which uses the scientific knowledge of the behaviour and effects of electrons to develop components, devices, systems, or equipment that uses electricity as part of its driving force.

Synonym electronic engineering

Source definition: Wikipedia

isiZulu ubunjiniyela bezebonhansi

elevator

A large container for carrying people or goods from one floor of a building to another. Synonym lift

Source definition: Longman Dictionary of Contemporary English adapted

isiZulu ilifthi

embankment

A ridge constructed of earth, fill rocks, or gravel and used most commonly to retain water or to carry a roadway.

Source definition: Dictionary of Construction Terminology

isZulu udonga lokuvimbela ubonda lokuvimbela

isiZulu

engineer

A person who is professionally trained to design and build machines, engines, certain equipment, or to construct roads, bridges, buildings, etc., using scientific principles.

Source definition: Cambridge Learners Advanced Dictionary adapted

isiZulu **unjiniyela**

engineering

The application of scientific and mathematical principles to practical ends such as the design, manufacture, and operation of efficient and economical structures, machines, processes, and systems.

Source definition: Thefreeditcionary.com

isZulu ubunjiniyela

engineering brick

A type of brick used where the strength, low water porosity or acid (flue gas) resistance are needed.

Source definition: Wikipedia.org

isiZulu isitini sobunjiniyela

Engineering Council of South Africa

A statutory body established in terms of the Engineering Profession Act (EPA), 46 of 2000 and its primary role is the regulation of the engineering profession in terms of this Act.

Acronym ECSA

Source definition: Engineeringnews.co.za adapted

isZulu umKhandluwobuNji niyela wase niNgizlmu Afrika

environmental engineering

The branch of engineering that is concerned with protecting people from the effects of adverse environmental effects.

Source definition: Livescience.com adapted

isZulu ubunjiniyela bebunjalo bendawo escalator

A set of stairs that move and carry people from one level within a building to another.

Source definition: Longman Dictionary of Contemporary English

isiZulu izitebhisi ezizihambelayo

escutcheon {ornamental or protective plate, e.g. around keyhole}

An ornamental plate that fits around a pipe extending through a wall or floor to hide the cut out hole.

Source definition: Dictionary of Construction Terminology

isiZulu i-escuthcheon isiZulu isikashini

extrados

The exterior curve or surface of an arch or vault.

Source definition: Dictionary.com

isiZulu ingaphandle legobela

F

face brick

A brick which is intended to be visible, and is thus designed with some aesthetic aims in mind so that it is visually interesting and appealing to look at.

Source definition: www.wisegeek.com adapted

isiZulu isitini sangaphandle

faced wall

A wall whose masonry facing and backing are of different materials.

Source definition: Thefreedictionary.com

isiZulu udonga olwakhe ngezitini ezingafani

fascia

A decorative board fixed to the ends of the rafters.

Source definition: Aleck Associates Ltd.

isiZulu ifishiyabhodi

isZulu uqwembe lwesikhoco sendlu

faulting

The difference in elevation of two adjacent concrete slabs at ajoint, primarily caused by the traffic-induced movement of base material particles from under one joint edge to under the adjacent joint edge.

Source definition: Definitions of Civil Engineering Terms (1992)

isZulu ukuphama okuhlukile

fenestration

The design, construction, or presence of openings in a building and includes windows, doors, louvres, vents, wall panels, skylights, storefronts, curtain walls, and slope glazed systems.

Source definition: Wikipedia.org adapted

isiZulu	ukuhlelwa kwesakhiwo
isiZulu	ukuba nezikhala kwesakhiwo

ferrule

A metal tube used to keep roof gutters open.

Source definition: Dictionary of Construction Terminology

- isiZulu **iferuli**
- isiZulu isongo lokuqinisa ilungu

filler-joistfloor

An obsolete but commonly-found form of floor comprising a concrete slab reinforced with steel *L*-beams known as rolled steel joints.

Source definition: Aleck Associates Ltd.

isiZulu indawo yaphansieqnisiwe ngentsimbinokhonkolo

fink truss

A wood or steel truss used to support a roof with a span of up to 50 feet.

Sourcedefinition: www.Yourdictionary.com

isiZulu	amakabha kaFink
isiZulu	amabhanuko kaFink
isiZulu	uhlaka lophahla kaFink
isiZulu	uhlaka lophahla olunxantathu

firebrick

A block of refractory ceramic material used in lining furnaces, kilns, fireboxes, and fireplaces.

Source definition: Wikipedia

isiZulu isitina esimelana nomlilo

firewall

A wall or partition designed to inhibit or prevent the spread of fire.

Source definition: Concise Oxford English Dictionary English 11th Edition

isiZulu ubonda bkuvimbela umlilo udonga isiZulu bkuvimbela umlilo

fixture branch {plumbing}

Any pipe which connects several plumbing fixtures, such as a drain serving two or more fixtures or a supply pipe between the water-distributing pipe and several fixtures.

Source definition: Thefreedictionary.com

isZulu ipayipi ekuhlanganiswa kulo

isiZulu **ipayipi ekudibaniswa kulo**

fixture unit {unit of measure in plumbing}

A unit of measure, based on the rate of discharge, time of operation and frequency of use of a fixture, that expresses the hydraulic load imposed by that fixture on the sanitary plumbing installation.

Source definition: Wikipedia.org adapted

isiZulu isiIinganisi payipi? isiZulu isikali somthamo?

flagstone

A generic flat stone, usually used for paving slabs or walkways, patios, fences and roofing.

Source definition: Wikipedia.org adapted

isiZulu itsheeliyixwexwe

flange

A projecting rim, collar, or ring on a shaft, pipe, machine housing, etc., cast or formed to give additional strength, stiffness, or supporting area, or to provide a place for the attachment of other objects.

Source definition: Dictionary.com

isiZulu **iflenji** isiZulu **impundu yesondo**

flap gate {e.g. to prevent inflow of water}

A device that allows water to flow in one direction only through a culvert; it is used especially to drain surface water from coastal marshes at low tide.

Source definition: www.Yourdictionary.com

isiZulu isango lokulawula amanzi

flashing {e.g. to prevent seepage from wind and water}

Material, usually metal, used to prevent seepage of wind and water at any roof intersection or projection such as vent pipes, valleys, chimneys, dormers etc.

Source definition: Engineering-dictionary.org

isiZulu ucwecwe lokhethe eluvalela imvula ingangeni

flat roof

A roof with a slight fall which is designed and constructed to allow rainwater to be shed by gutters, outlets or to the perimeter of the roof.

Source definition: National Building Regulation Code of Good Practice

isiZulu uphahla eliyithafa

flatwork

Any flat system of construction, such as a concrete slab, sidewalks, patios, asphalt drives and parking lots.

Source definition: Dictionary.com

isiZulu **ithafa**

flitched beam

A compound beam used in the construction of houses, decks, and other primarily wood- frame structures.

Source definition: Wikipedia.org adapted

isiZulu	ugongolo
isiZulu	umjanjatho

floatingwall

A non-bearing wall built on a concrete floor.

Source definition: Dictionary of Construction Terminology

isiZulu ubonda oluntantayo isiZulu udonga oluntatayo

floor \rightarrow storey

flue pipe

A pipe that leads from a fire or heater to the outside of a building, taking smoke, gases, or hot air away.

Source definition: www.dictionary.cambridge.org

- isiZulu umbhobho wentuthu
- isiZulu umbhobho kashimula

fly ash → pulverised fuel ash

fly rafter {roofing}

A gable-end rafter on a roof overhang that runs parallel to the common rafters and is supported by the lookout rafter.

Source definition: Dictionary of Construction Terminology

isiZulu umshayo

flywheel {mechanical device}

A heavy wheel that is part of some engines.

Source definition: Collins Dictionary

isiZulu ifulayiwili

folding door

A type of door which opens by folding back in sections or so-called panels.

Source definition: Wikipedia

isZulu umyango osongayo??

footing {concrete support}

A foundation unit constructed in brick work, masonry or concrete under the base of a wall or a column for the purpose of distributing the load over a large area.

Source definition: www.Quora.com

isiZulu isizinzisi isisekelo isiZulu

foundation

The part of a structure of a building that is below the ground and supports the rest of it.

Source definition: Macmillan English Dictionary

isiZulu	isisekelo
isiZulu	umthambo

frog {brick}

A depression made on the face of bricks during moulding.

Source definition: Civilsutra.in

isiZulu isifocosesitini

G

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gable {roof}
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The triangular upper part of a wall at the end of a ridged roof.

Source definition: Concise Oxford English Dictionary

isiZulu	igebuli
isiZulu	igebula

galvanised iron {iron coated with zing Iron, especially a sheet of corrugated iron, covered with a protective coating of zinc.

Source definition: www.Collinsdictioary.com

isiZulu uthayela

gambrel roof

A hipped roof with a small gable forming the upper part of each end.

Source definition: www.oxforddictionaries.org

isiZulu uphahla oluyigambreli isiZulu uphahla lwegebulana

geotechnical engineering

The branch of engineering concerned with the analysis, design and construction of foundations, slopes, retaining structures, embankments, tunnels, levees, wharves, landfills and other systems that are made of or are supported by soil or rock.

Source definition: Ejge.com adapted

isZulu ubunjiniyela ngobunjalomhlaba

girder

A beam, as of steel, wood, or reinforced concrete, used as a main horizontal support in a building or bridge.

Source definition: Thefreedictionary.com

isiZulu insika ephansi okwakhiweyo isiZulu umjanjatho wensimbi

green roof {roof covered with e.g. vegetation}

A roof covered with vegetation, designed for its aesthetic value and to optimise energy conservation.

Source definition: www.dictionary.com

isiZulu uphahla eluhlobile

isiZulu uphahla oluhlaza

grille

A metal frame with bars or wire across, that is used for protecting a door or a window.

Source definition: Macmillan English Dictionary

isZulu efasitela elinezinsimbi ezivimbileyo

grout

A mortar or paste for filling crevices, especially the gaps between wall or floor tiles.

Source definition: Concise Oxford English Dictionary

isiZulu **igrawuthi** isiZulu **isinamathelisi**

gusset plate

A triangular plate of steel that is used to connect beams and girders to columns.

This gazette is also available free online at www.gpwonline.co.za

Source definition: Wikipedia.org amended

isZulu isiqinisindwangu

gutter

An open pipe at the lower edge of a roof which collects and carries away rain water.

Source definition: Cambridge Advanced Learners Dictionary

isiZulu **ugadasi**

Η

half-hip roof

A variant of a hip roof depicting a small modification at the top of the gable.

Source definition: Myrooff.com

isiZulu uphahla oluqhunsuke macala

hardware {tools and equipment}

Metal tools, materials and equipment used in a house or a garden, such as hammers, nails and screws.

Source definition: Cambridge Advanced Learners Dictionary

isiZulu **izimpahla zokwakha amathulusi** isiZulu

hearth

The floor of a fireplace in a house and the area around it.

Source definition: Macmillan English Dictionary

isiZulu **iziko**

hip and valley roof *A modified or extended hip* roof.

Source definition: www.qbis.com

isiZulu uphahla ulonwebekile?

hip roof

A simple roof which slopes downward at all points and has a uniform angle of pitch.

Source definition: Wikihow

isiZulu umjanjatho onabile

hod {*three-sided container for carrying bricks etc*}

A three-sided container mounted on a pole, used to carry bricks or mortar up a ladder.

Source definition: Aleck Associates Ltd.

isiZulu okokuphatha izitini??

honeycomb brickwork

A brick bond characterised by the absence of certain bricks for decorative purposes, or to allow ventilation or provide a screened effect.

Source definition: Thefreedictionary.com

isiZulu udonga oluhlobiswe njengokhekheba

Howe truss

A truss having vertical and diagonal members between the upper and lower horizontal members.

Source definition: Meriam-Webster.com

isiZulu amakabha kaHowe isiZulu amabhanuko kaHowe

hydraulic cement

A product used to stop water and leaks in concrete and masonry structures and is a type of cement, similar to mortar, that sets extremely fast and hardens after it has been mixed with water.

Source definition: Thebalance.com adapted

isiZulu usemende womfutholuketshezi

hydraulic engineering

The branch of civil engineering dealing with the use and control of water in motion.

Source definition: Vocabulary.com

isiZulu ubujiniyela bomfutholuketshezi

industrial engineering

The branch of engineering that is concerned with the production of industrial goods, especially by the design of efficient plants and procedures and the management of

materials, energy, and labour.

Source definition: Thefreedictionary.com

isZulu ubunjiniyela bezemsembenzi

insulation

The act of covering something to stop heat, sound, or electricity from escaping or entering, or the fact that something is covered in this way.

Source definition: Cambridge.org

isiZulu	ukuvimbelakushisa
isiZulu	ukwemboza

intrados

The interior curve or surface of an arch or vault.

Source definition: Dictionary.com

isiZulu igobela langaphakath i lweashi

J

jamb {lining of e.g. a doorway}

The side and head lining of a doorway, window, or other opening.

Source definition: Homebuildingmanual.com

isiZulu isigxobo somnyango

isiZulu impeladonga yesikhala

joggle

A joint between two pieces of stone, concrete, or timber, consisting of a projection in one of the pieces fitting into a notch in the other, or a small piece let in between the two.

Source definition: Concise Oxford English Dictionary English 11th Edition

isZulu **joyinti** isiZulu **isihlanganisi**

joinery

The wooden components of a building collectively.

Source definition: Concise Oxford English Dictionary English 11th Edition

isiZulu umsebenzi wokubaza amapulangwe

joint sealant

A material used as a filler in concrete pavement joints to prevent infiltration of water, soil and other fine particles.

Source definition: Definitions of Civil Engineering Terms (1992)

isiZulu ijoyinti yokuxhumanisa

joist

Any of the small timbers or metal beams ranged parallel from wall to wall in a structure to support a floor or ceiling.

Source definition: Mariam-Webster.com

isiZulu **ijoyisti** isiZulu **umshayo wokusekela**

Κ

keystone

A stone at the top of an arch that keeps the structure together.

Source definition: Macmillan English Dictionary

isiZulu itshe eliyisisekelo

isiZulu isikhonkhwane seMashi

kicker {stability}

A wood block or board attached to a formwork member in a building frame or formwork to make the structure more stable.

Source definition: Dictionary of Construction Terminology

isiZulu **isizinzisi**

king closer {brick}

A rectangular brick having one corner cut diagonally to half the end of the brick and used to fill an opening in a course larger than half a brick.

Source definition: Thefreedictionary.com adapted

isiZulu i-king closer isiZulu isitini esingunxande

king post {roof}

A structural member running vertically between the apex and base of a triangular roof truss.

Source definition: Dictionary.com

isiZulu ikabha eliyisisekelo

L

laminated strand lumber

An engineered wood product developed in the 1980s in which wood strands are glued together and pressed into forms using steam injection. Abbreviation **LSL**

Source definition: Thefreedictionary.com

isiZulu amapulangwe anamathelisiwe

latch

A spring lock for an outer door, which catches when the door is closed and can only be opened from the outside with a key.

Source definition: Concise Oxford English Dictionary

isiZulu isiqhebeza somnyango iweji isiZulu

lateral sewer \rightarrow side sewer

lath

A thin strip of wood nailed to studs or joints as carrier for plaster. Source

definition: Aleck Associates Ltd.

isiZulu ilati isiZulu ipulangwe elilula

lattice

A framework consisting of an ornamental design made of strips of wood or metal.

Source definition: WordReference

isiZulu ilathisi isiZulu isihonga esakhiwe ngokuphuca izintingo

lean-to roof

A single slope roof with its upper edge adjoining a wall or a building.

Source definition: https://gharpedia.com

isiZulu uphahla oluehlelayo

ledger

A horizontal scaffold pole fixed to two upright poles for supporting the outer ends of putlogs.

Source definition: Thefreedictionary.com

isiZulu ileja

lewis{steeldevice}

A steel device for lifting heavy blocks of stone or concrete, consisting of three pieces arranged to form a dovetail.

Source definition: Concise Oxford English Dictionary English 11th Edition

isiZulu isifunquli samatshe noma ikhonkolo

Lift \rightarrow elevator

lift pit

That part of an elevator shaft that extends from the threshold level of the lowest landing door down to the floor at the very bottom of the shaft.

Source definition: Thedictionaryforcostruction.com

isiZulu umgodi welifthi umgodi isiZulu weshafti

lime mortar

A mortar made of lime, sand, water, and occasionally a small quantity of cement.

Source definition: Meriam-Webster.com

isiZului udaka lomcako siZulu udaka lokhalikho

lintel

A piece of stone or wood that supports the wall above a door or window. Synonym **lintol**

Source definition: Aleck Associates Ltd.

isiZulu	ilentela
isiZulu	umshayo ophezu komnyango
isiZul u	umshayo ophezu kwefasitela

 $\text{lintol} \rightarrow \text{lintel}$

load-bearing wall

A wall that is an active structural element of a building, that is, it bears the weight of the elements above said wall, resting upon it by conducting its weight to a foundation structure.

Source definition: Wikipedia

isiZulu ubonda lokuthwala isakhiwo Synonym udonga lokuthwala isakhiwo

louver → louvre

louvre

A framed opening, as in a wall, door, or window, fitted with fixed or movable horizontal slats for admitting air or light and often for shedding rain.

Source definition: Thefreedictionary.com

isiZulu i-louvre

 $LSL \rightarrow$ laminated strand lumber

Μ

manhole

A hole in the surface of a road or street, covered with a metal lid and used for entering an underground passage such as sewer.

Source definition: Macmillan English Dictionary

isiZulu umbhobho wokungena

mansard roof

A roof having four sides, in each of which the lower part of the slope is steeper than the upper part.

Source definition: Concise Oxford English Dictionary English 11th Edition

- isiZulu uphahla oluyimpindakwehla
- isiZulu uphahla oluyimpindamgingqilizi

isZulu uphahla lukaMansard

mantelpiece → mantlepiece

mantelpiece

A construction framing the opening of a fireplace and usually covering part of the chimney

breast in a more or less decorative manner. Synonym **mantelpiece**

Source definition: Dictionary.com

isiZulu ishalufu eliphezu kweziko isiZulu isembesoseziko

manufacturing engineering

A branch of professional engineering requiring such education and experience as is necessary to understand and apply engineering procedures in manufacturing processes and methods of production of industrial products.

Source definition: Researchgate.net adapted

isiZulu **ubunjiniyela bezokwenza** isiZulu **ubunjiniyela bezemishini**

masonry

The bricks or stones that make a building wall, or other structures.

Source definition: Macmillan English Dictionary

isiZulu ubonda lwamatshe abaziweyo isiZulu udonga lwamatshe a baziweyo

mastic {waterproof filler}

A putty-like waterproof filler and sealant used in building.

Source definition: Collins Cobuild

isiZulu imastiki

matte finish \rightarrow matt finish

matt finish

A paint, colour, or surface that is dull rather than shiny. Synonym **matte finish**

Source definition: Collins Cobuild

isiZulu umbala obuthuthu

maul {tool}

A heavy, long-handled hammer used especially to drive stakes, piles, or wedges. Source

definition: Thefreedictionary.com

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isiZulu isando

mechanical engineering

The branch of engineering concerned with the design, construction, and operation of machines and machinery.

Source definition: Collinsdictionary.com

isiZulu ubunji niyela bezemishini

millwork

Woodwork (such as doors, sashes, or trim) manufactured at a mill.

Source definition: Homebuildingmanual.com

isZulu umsebenziwamapulangwe okwamapulangwe isiZulu

miningengineering

A branch of engineering concerned primarily with the location and evaluation of mineral deposits, the survey of mining areas, the layout and equipment of mines, and the supervision of mining operations.

Source definition: Mariam-Webster.com

isiZulu ubunjiniyela bezemigodi isiZulu ubunjiniyela bezemayini

miter saw \rightarrow mitre saw

mitre saw

A specialised tool that lets one make cuts at a variety of angles. Synonym **miter saw**

Source definition: www.Google.com

isiZulu isaha lemitha

monolithicconcrete

A reinforced concrete cast with no joints other than construction joints.

Source definition: Encyclopedia Britannica

isiZulu ikhonkolo lebumbene

mono-pitch roof

A single-sloped roof surface, often not attached to another roof surface. Synonym single-pitch roof Source definition: Wikipedia adapted

isiZulu uphahla eluphakeme

mortar

A mixture of lime with cement, sand, and water, used in building to bond bricks or stones.

Source definition: Concise Oxford English Dictionary English 11th Edition

isiZulu udaka

mortice

A hole cut into a piece of wood or stone into which one fits the end of another piece of wood or stone called a tenon in order to join the two pieces. Synonym **mortise**

Source definition: Macmillan English Dictionary

isiZulu	ingoxi epulangweni
isiZulu	isihlanganisi magilasi esimile
isiZulu	imothisi

 $mortise \rightarrow mortice$

mullion {window}

A piece of metal, wood, or stone used for separating the pieces of glass in a window.

Source definition: Macmillan English Dictionary

isiZulu isihlanganisi magilasi esimile

muntin{window}

Any of the strips of wood or metal used for support between panes of glass, as in a window.

Source definition: Collins English Dictionary

isiZulu imicu esekela igilasi yefasitela

Ν

nano-engineering

A field focused on manipulating processes that occur on the scale of 1 to 100 nanometres.

Source definition: Wisegeek.com adapted

isiZulu ubunjin iyela benano

nanometre

A unit of length in the metric system, equal to one billionth (short scale) of a metre.

Source definition: Wikipedia.com adapted

isiZulu i-nanomitha

nanotechnology

The manipulation and manufacture of materials and devices on the scale of atoms or small groups of atoms.

Source definition: Britannica.com

isiZulu **ithekinoloji yenano** Synonym **buchwepheshe benano**

needle {steel beam}

A steel beam used to support an existing structure while it is being repaired, or to provide support when moving a structure, or when removing a portion of the wall below the beam.

Source definition: Thefreedictionary.com adapted

isZulu ibhimu yensimbi umshayo Synonym wensimbi

non-load bearing wall

A wall capable only of supporting its own weight and (if it is an exterior wall) capable of resisting the force of the wind blowing against it; it cannot support an imposed load.

Source definition: Thefreedictionary.com

isiZulu udonga olungenakumelana nomthwalo? udonga Synonym olungenakumelana nomthwalo?

0

oriel window

An upper storey window projecting outward from a wall.

Source definition: Theconstructioncivil.org

isiZulu iwindi lweoriyeli isiZulu ifasitela lweoriyeli

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isiZulu fasitela eliphumele ngaphandle

outrigger

A structural element projecting out from a building to act as support, usually for a barge roof overhang.

Source definition: En.mimi.hu

isiZulu isizinzisi sesikhobe sesinqe sophahla

lisiZulu isizinzisi sesakhiwo

Ρ

padstone

A block of concrete or stone used to spread the weight of a beam orjoist, to avoid crushing the wall upon which it rests.

Source definition: Aleck Associates Ltd.

isiZulu iphedistoni

parapet {wall}

A barrier which is an extension of the wall at the edge of a roof, terrace, balcony, walkway or other structure.

Source definition: Aleck Associates Ltd.

isiZulu udongasivimbelakuwa

- isiZulu uthango lokuvikela
- isiZulu **ipharaphethi**

partition {wall}

A non-load bearing wall between rooms or areas in a building.

Source definition: Aleck Associates Ltd.

isiZulu **uthango lokwahlukarisa** isiZulu **isahlukaniso**

partition stud → stud

partywall

A wall that divides two buildings that are joined together, and belongs to both of them.

Source definition: Dictionary.cambrdige.org

isiZulu udonga oluhlukanisa izindlu isiZulu ubonda oluhlukanisa izindlu

petroleum engineering

The study of how to locate and extract energy resources, such as oil and natural gas, from the earth.

Source definition: Learn.org adapted

isiZulu ubunjiniyelabezephetroli isiZulu ubunjiniyela bezephalafini

pier {e.g. support for a bridge}

A wide column or a wall of masonry, plain or reinforced concrete for carrying heavy loads, such as a support for a bridge.

Source definition: Definitions of Civil Engineering Terms (1992)

isiZulu	insika	iphiye
isiZulu	insika	yamatshe

pilaster {column}

A flat column that is slightly further forward than the rest of a wall.

Source definition: Macmillan English Dictionary

isiZulu **insika**

pile {foundation}

Wooden, concrete, or metal posts which are pushed into the ground and on which buildings or bridges are built which are often used in very wet areas so that the buildings do not flood.

Source definition: Collins Cobuild adapted

isiZulu insika okwakhiwa phezu kwazo

pile driver

A large machine that pushes posts into the ground to support new buildings.

Source definition: Macmillan English Dictionary

isiZulu i-pile driver

pillar

A tall vertical structure, usually of stone, used as a support for building.

Source definition: Concise Oxford English Dictionary

isiZulu insika

pilot hole

A guiding hole for a nail or screw, or for drilling a larger hole.

Source definition: Dictionary of Construction Terminology

isiZulu intunja yesi pikili

plaster {walls and ceilings}

A soft mixture of lime with sand or cement and water for spreading on walls and ceilings to form a smooth hard surface when dried.

Source definition: Concise Oxford English Dictionary

isiZulu	udaka	lokunameka
isiZulu	udaka	lokuphahleka

plasterboard

A board made of plaster set between two sheets of paper, used especially to line inner walls.

Source definition: Concise Oxford English Dictionary

isiZulu ipulangwe lodaka plinth

The portion of the external wall between the level of the street and the level of the floor first above the street.

Source definition: Theconstructioncivil.org

isiZulu isisekelo ipilinti isiZulu uxhaso isiZulu ukholomu

plum \rightarrow plum stone

plumbing fixture

An exchangeable device which can be connected to a plumbing system to deliver and drain water.

Source definition: Wikipedia.org adapted

isiZulu isisetjenziswa sokumfunza amanzi

plum stone

A large stone orpiece of solid concrete used as a filler in mass concrete. Synonym **plum**

Source definition: Aleck Associates Ltd.

isiZulu itshelokugwalisa

plywood

A type of board used for building houses, furniture etc., made from thin layers of wood that are fixed together using glue.

Source definition: Macmillan English Dictionary

isZulu ipulangwe

pointing {cement}

The cement or mortar between the stones or bricks in a wall.

Source definition: Macmillan English Dictionary

isZulu udaka lokwakha

poling board

A board used to support the sides of an excavated structure.

Source definition: Oxforddictionaries.com

isiZulu ibhodi yokusekela indawo eghubiweyo ibhodi isiZulu yokusekela isakhiwo embiweyo

portal frame

A frame, usually of steel, consisting of 'two uprights and a cross beam at the top.

Source definition: Collinsdictionary.com

siZulu	ifulemu lesakhiwo
Synonym	uhlaka lesakhiwo

portico {entryway}

A covered entryway attached to house, usually open on three sides and supported by posts or columns.

Source definition: Beaufortonline.com isiZulu umnyango isiZulu isango

Source definition: Yourdictionary.com

Portland cement

A kind of cement that hardens under water, made by burning a mixture of limestone and clay or materials similar.

Source definition: Yourdictionary.com
isiZulu usemende we-Portland

post stressed concrete

Concrete strengthened with steel wires which are stressed after the concrete has cured. Synonym post tensioned concrete

Source definition: Aleck Associates Ltd.

isiZulu ikhonkolo eqiniswe ngensimbi

post-tensioned concrete → post-stressed concrete

prefabricated house

A house that is built in sections or component parts in a plant, and then assembled at the site.

Sourcedefinition: Beuafortonline.com

isiZulu indlu iphrifebhu

pre stressed concrete

Concrete strengthened with steel wires which are stressed before the concrete is poured. Synonym pre tensioned concrete

Source definition: Aleck Associates Ltd.

isZuluikhonkoloeqinlsiwekokucalangensimbiSynonymkhonkoloeqaliswe ngensimbi

pre-tensioned concrete → pre-stressed concrete

primer

The first, base coat of paint when a paint job consists of two or more coats.

Source definition: Homebuildingmanual.com

isiZulu upendewokuqala

profilograph {instrument}

An instrument for measuring and recording roughness of the surface over which it travels.

Source definition: Thefreedictionary.com

isiZulu iphrofilografu

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progressive collapse {demolition}

The process wherein the collapse of part of a building leads to the collapse of an adjacent part in 'house of cards' fashion.

Source definition: Aleck Associates Ltd.

siZulu ukubhidlizwa ngokwehlukana kwesakhiwo

pugging {insulation}

A traditional infill between timber floor joints intended to enhance the acoustic insulation of the floor.

Source definition: Aleck Associates Ltd.

isiZulu ukufakwa kwesivimbelimsindo

pulley {e.g. construction}

A wheel with a grooved rim around which a cord passes, used to raise heavy weights.

Source definition: Oxford English Dictionary

isiZulu isondo lokugljimisa intambo noma iketanga isiZulu umdonso isiZulu iphuli

pulverised fuel ash

A fine white powder resulting from burning powdered coal in power stations, which can be used to supplement cement in making concrete for civil engineering works. Synonym **fly ash**

Source definition: Aleck Associates Ltd.

isiZulu	umlotha wezibas	ozophuquza
isiZulu	umlotha wezibas	ozencushuza

purlin

A horizontal structural member which supports a sloping roof covering, with or without rafters, and which carries the roof loads to the primary framing members.

Source definition: Aleck Associates Ltd.

isiZulu	iphelini
isiZulu	ithandela

putlock \rightarrow putlog

putlog

A short horizontal pole projecting from a wall, on which scaffold floorboards rest.

Synonym **putlock**

Source definition: Concise Oxford English Dictionary English 11th Edition

isiZulu isixhasi-sikafula

pyramid hip roof

A roof that takes the shape of a pyramid and it is constructed on top of a square or a rectangular base.

Source definition: www.myrooff.com adapted

isiZulu **uphahla oluyiphramidi** isiZulu **uphahla oluyisikwele mcjo**

Q

quarry

An excavation or pit, usually open to the air, from which building stone, slate, or the like, is obtained by cutting, blasting, etc.

Source definition: Dictionary.com

isiZulu igilasi elinomumo wedayimani

isiZulu inkwali

quarry tile

A man-made or machine-made clay tile used to finish a floor or wall.

Source definition: Dictionary of Construction Terminology

isiZulu isitini sokufuela senkwali

queen closer {brick}

A brick of normal length and thickness but of half normal width, used to complete a course or to space regular bricks.

Source definition: Thedictionary.com

isiZulu **Isitini esiphungulwe emhubulweni** Synonym **isitini esihafulwe emhlubulweni**

queen post {roof}

A tension member in a truss that can span longer openings than a king post truss.

Source definition: Wikipedia

isiZulu isekan sika

quoin {wall}

The external corner where two brick walls meet.

isiZulu	itshe lekhona
isiZulu	itshe legumbi
isiZulu	ikhoyini

R

radon system {ventilation system}

A ventilation system beneath the floor of a basement and/or structural wood floor and designed to fan exhaust radon gas to the outside of the home.

Source definition: Homebuildingmanual.com

isiZulu indlela yokungenisa umoya rafter

{roof}

A large piece of wood that supports a sloping roof.

Source definition: Macmillan English Dictionary

isiZulu	umshayo
isiZulu	umjibe
isiZulu	umjanjatho

raft foundation

A thick concrete slab reinforced with steel which covers the entire contact area of the structure like a thick floor.

Source definition: civil-engg-world.blogspot.com

- isZulu umsahyo wesisekelo
- isiZulu **umjibe wesisekelo**
- isiZulu umjanjatho wesisekelo
- isiZulu isihlenga sesisekelo

rebate {woodwork}

A groove cut along the edge of a board producing an L-shaped strip, that is used as trim and in joint work in cabinet construction.

Source definition: Beaufortonline.com isiZulu i-rebate

reinforced concrete

Concrete in which metal bars or wire are embedded to strengthen it.

Source definition: Concise Oxford English Dictionary

isiZulu ikhonkolo eliqinisako

 $restrainer \rightarrow retarder$

retarder {cement}

A substance added to slow down the rate of a chemical change, such as one added to cement to delay its setting. Synonym restrainer

Source definition: Collins English Dictionary

isiZulu	isilibazisi
isiZulu	isivimbeli

reveal {*architecture*} *Either side surface of an aperture in a wall for a door or window.*

Source definition: Concise Oxford English Dictionary English 11th Edition

isiZulu i-rivili

revolving door

A door, especially at the entrance of a building, typically made of three or four rigid upright sections joined at right angles and rotating about a central upright pivot.

Source definition: Thefreedictionary.com

isiZulu umyangooginqiikayo isiZulu umyangoophendukayo

ridge {roof}

The edge formed where the two sloping sides of a roof meet at the top.

Source definition: Concise Oxford English Dictionary

isiZulu umqolo wophahla

isiZulu ukhalobphahla

ridge tile

A curved tile which covers the ridge on a pitched roof.

Source definition: Aleck Associates Ltd.

isiZulu umbhobho wesitini sokufuela

riprap {e.g. wall}

A sustaining wall or foundation of random stone to prevent erosion on an embankment.

Source definition: Beaufortonline.com

isiZulu udonga elivikela ukukhukhuleka?

riser {staircase}

A vertical board rising from the back of one tread of a staircase to the front of the next.

Source definition: Aleck Associates Ltd.

isiZulu ukuphakama kwezithebisi roof

light →skylight

rough arch

A brick arch in which the bricks are rectangular and the arch shape is formed by means of the mortarjoints being wedge-shaped.

Source definition: Aleck Associates Ltd.

isiZulu i-ashi yezitini ezingasikwanga

rustication

A type of decorative masonry achieved by cutting back the edges of stones to a plane surface while leaving the central portion of the face either rough or projecting markedly.

Source definition: Britannica.com

isiZulu i-rustication isiZulu umhlobiso wezici zamatshe

S

saddle-back roof

A double sloping roof with a ridge and gables at each end.

Source definition: Thefreedictionary.com

isiZulu uphahla lokhalo lwegqumqa?

sanitary engineering

The branch of civil engineering associated with the supply of water, disposal of sewage, and other public health services.

Source definition: Collinsdictionary.com

isiZulu ubunjiniyela benkucunkucu

sanitary sewer

A sewer system designed for the collection of waste water from the bathroom, kitchen and laundry drains, and is usually not designed to handle storm water.

Source definition: Dictionary of Construction Terminology

isiZulu ipayipi lokuchitha inkucunkucu

sashwindow

A window that can be opened either by sliding the bottom half up or by sliding the top half down. Synonym cased window

Source definition: Meriam-Webster.com

isiZulu ifasitelaeliphakanyiswayo

scaffold

A structure of poles and planks used by workers to stand on when building.

Source definition: Shuters Life Orientation Leaners Book 2006

isiZulu isikafodi

scarf joi nt

A method of joining two members end to end in woodworking or metalworking. Synonym scarph joint

Source definition: Wikipedia adapted

isiZulu ukuhlanganiswa okuyisikafu

isiZulu ukudibaniswa okuyisikafu

scarph joint → scarf joint

screed

A strip of wood, plaster, or metal placed on a wall or pavement as a guide for the even application of plaster or concrete.

Source definition: Thefreedictionary.com

isiZulu **iskridi** isiZulu **isilinganisi**

scupper

Any opening in a wall, parapet, bridge curb, or slab that provides an outlet through which excess water can drain.

Synonym scupper hole

Source definition: Dictionary of Construction Terminology

isiZulu imbobo

scupperhole → scupper

scuttle

A small opening or hatch with a moveable lid in the deck or hull of a ship or in the roof, wall, or floor of a building.

Source definition: Thefreedictionary.com

isiZulu intunja

seal coat {roads}

A thin bituminous application to a surface or wearing course to seal and waterproof small voids and to embed sand or chips to provide better traction.

Source definition: Definitions of Civil Engineering Terms (1992)

isiZulu itiyela

seismic engineering \rightarrow earthquake engineering

septic tank

A tank in which the solid matter of continuously flowing sewage is disintegrated by bacteria.

Source definition: Meriam-Webster.com

isiZulu ithangelokubolisela

sewer

A pipe or conduit which is the property of or is vested in the local authority and which is used or intended to be used for the conveyance of sewage.

Source definition: The Concrete & Mortar Handbook adapted

isiZulu umbhobhowonkucunkucu

sewer connection → sewer stub

sewer stub

The point at which a home's sewer line joins the municipal sewer system.

Synonym sewer connection

Source definition: Dictionary of Construction Terminology

isiZulu iqhosha lokuhlanganisa

shear wall

A rigid vertical diaphragm capable of transferring lateral forces from exterior walls, floors, and roofs to the ground foundation in a direction parallel to their planes.

Source definition: Britannica.com

isiZulu udonga olumelana noku zamazama komhlaba isiZul- udonga olunkhonkhiwe u

shed roof

A roof having only one sloping plane and no hips, ridges or valleys.

Source definition: Yourdictionary.com

isZulu uphahla olutshekele eceleni

sheer legs {lifting device}

A hoisting apparatus made from poles joined at or near the top and separated at the bottom, used for lifting heavy objects.

Source definition: Concise Oxford English Dictionary

isiZulu umshini wokufula izimpahla ezisindayo isiZulu isifunquli

shim

A small piece of scrap lumber or shingle, usually wedge shaped, which when forced behind a furring strip or framing member forces it into position.

Source definition: www.askdefine.com

isiZulu **iweji**

shingle {walls and roofs}

A rectangular wooden tile used on walls or roofs.

Source definition: Dictionary of Construction Terminology

isiZulu ishingili

shutter

Each of a pair of hinged panels fixed inside or outside a window that can be closed for security or privacy or to keep out the light.

Source definition: Concise Oxford English Dictionary English 11th Edition

isiZulu isivalo sewindl isivalo isiZulu sefasitela

sidesewer

The portion of the sanitary sewer which connects the interior waste water lines to the main sewer lines. Synonym lateral sewer

Source definition: Dictionary of Construction Terminology

isiZulu ipayipi yenkucunkucu eseceleni

sill

A shelf or slab of stone, wood, or metal at the foot of a window or doorway.

Source definition: Concise Oxford English Dictionary

isiZulu isili yefasitela Synonym isili yosango

sill plate

The bottom horizontal member of a wall or building to which vertical members are attached.

Source definition: Wikipedia

isiZulu **ipuleti yesili**

sillseal

A type of insulation (fibreglass or foam) installed between the foundation wall and wood sill plate to fill gaps.

This gazette is also available free online at www.gpwonline.co.za

Source definition: Dictionary of Construction Terminology amended

isiZulu isinamathelisi sesili

single-pitch roof → mono-pitch roof

siphonage {plumbing}

The emptying of the seal in a trap by the aspiration of the water in the trap due to the downward rush of water and air in the pipes with which the trap is connected.

Source definition: www.wordnik.com

isiZulu ukukhamba ngefanelo kwamanzi

skewback {supporting wall}

An inclined part of a pier or abutment from which an arch springs. Synonym **springer**

Source definition: Theconstructioncivil.org

isiZulu isisekela-ashi

skewback → springer

skirting → baseboard

skylight

An opening in a roof covered by glass or plastic material to admit natural light. Synonym **roof light**

Source definition: Beaufortonline.com

isiZulu ifasitela phezulu ophahleni slag

{binder}

A latent hydraulic binder that is used in concrete and other construction applications as a partial cement replacement material.

Source definition: Afrisam.coza

isiZulu isibopho

sleeper {flooring}

A wood member embedded in concrete, as in a floor, that serves to support and to fasten the subfloor or flooring.

Source definition: Homebuildingmanual.com

isiZulu isisekeli esifakwa epulangweni

sleeper wall

A masonry wall constructed to support a suspended ground floor.

Source definition: The Concrete & Mortar Handbook

isiZulu ubonda lwamapulangwe Synonym udonga lwamapulangwe

sliding door

A type of door which opens horizontally by sliding, usually parallel to a wall.

Source definition: Wikipedia

isiZulu umyango oshelelezayo

slurry {e.g. cement}

A thin, watery mixture of neat cement or cement and sand.

Source definition: Definitions of Civil Engineering Terms (1992)

isiZului **udaka elilula** sZulu **udaka olumanzi**

soaker {metal sheet}

A metal sheet bent at a right angle, part of the waterproof flashing of the junction of a tiled or slated roof abutting a wall.

Source definition: Aleck Associates Ltd.

isiZulu isivimbelimanzi

soffit {architecture}

The underside of an architectural structure such as an arch or balcony.

Source definition: Concise Oxford English Dictionary English 11th Edition

isiZulu isofithi

soil pipe

A pipe that conveys the discharge from water closets or similar fixtures to the sanitary sewer system.

This gazette is also available free online at www.gpwonline.co.za

Synonym cesspipe

Source definition: Dictionary of Construction Terminology

isiZulu umbhobho wenkucunkucu ipayipi yendle isiZulu

soldier {to strengthen or align}

An upright brick, timber, or other building element. Synonym **soldier beam**

Source definition: Aleck Associates Ltd.

isiZulu **ibhimu yokuqinisa** isiZulu **umshayo wokuqinisa**

soldier beam \rightarrow soldier

sole plate

A strip of timber which is laid on top of walls to level the underside of flooring joists.

Source definition: A to Z Glossary of Definitions and Terms used in the National Building Regulation Code of Good Practice

isZulu isandlalelo sodonga

sonotube

A large tube of compressed fibre into which wet concrete is poured and left to harden, used to form pillars.

Source definition: Oxforddictionaries.com

isiZulu i-sonotiube

spandrel {architecture}

The almost triangular space between one side of the outer curve of an arch, a wall and the ceiling or framework.

Source definition: Concise Oxford English Dictionary

isiZulu isipandela

isiZulu **isipandreli**

spine wall

A load-bearing partition between the front and rear rooms of the house.

Source definition: Aleck Associates Ltd.

isiZulu **udonga** isiZulu **umthangala** isiZulu **ubonda**

spiralstaircase → spiralstairway

spiralstairway

Any succession of tapered treads forming a curved stairway which extends as a single flight from one floor to another and which has a minimum radius of curvature of less than 100 mm. Synonym spiral staircase

Source definition: The Concrete & Mortar Handbook

isiZulu isitezi esisongelekayo splay

An oblique surface {bevel or chamfered), as the jambs of a doorway or window; of which one side makes an oblique angle with the other.

Source definition: Aleck Associates Ltd.

isiZulu	intuba
isiZulu	indawo enabile
isiZulu isiZulu	indawoethambekekile indawoletshekile

splice {steelwork connection}

A steelwork connection forjoining for example two lengths of column to form a longer column.

Source definition: Aleck Associates Ltd.

isiZulu isidibanisi

springer {arch}

The lowest stone in an arch, where the curve begins.

Synonym skewback

Source definition: Wikipedia.org

isiZulu isiqalogobela

isiZulu isisekelo seashi

isiZulu isipringa

springer \rightarrow skewback

springing line

A line of intersection between the intrados and supports of an arch.

Source definition: Aleck Associates Ltd.

isiZulu isiqondisi se-ashi isiZulu umugqa wokuphambana

sprinkler system {fire extinguisher}

An automatic fire extinguisher installed in a ceiling.

Source definition: Concise Oxford English Dictionary English 11th Edition

isiZulu **isicima umlilo**

squintbrick

A brick used for forming acute or obtuse corners in brick masonry.

Source definition: Theconstructioncivil.org

isiZulu isitini esisikwe ngokwe-engile isitini isiZulu esinekhona ebukhali

stack vent {ventilation}

A ventilating pipe connecting to a distance stack above the highest connected discharge pipe.

Source definition: A to Z Glossary of Definitions and Terms used in the National Building Regulation Code of Good Practice

isZulu umbhobho wokunghenisa umoya isZulu isiphefemulisi

staircase \rightarrow stairway

stairway

Any part of the building which provides a route of travel between different levels in such buildings and is formed by a single flight or by a combination of two or more flights and one or more intervening landings.

Synonym staircase

Source definition: A to Z Glossary of Definitions and Terms used in the National Building Regulation Code of Good Practice

isiZulu izitebhisi

steelwork

A frame of steel sections supporting other parts of the structure.

Source definition: Aleck Associates Ltd.

isiZulu uphahla lwentsimbi

stile

A vertical piece in the frame of a panelled door or sash window.

Source definition: Concise Oxford English Dictionary English 11th Edition

isiZulu isitebhisi sokweqa ucingo isiZulu isitebhisi sokweqa uthango

storey

A part of a building which is situated between the top of any floor and the top of the floor next above it, or if there is no floor above it that portion between such floor and the ceiling above it. Synonym **floor**

Source definition: A to Z Glossary of Definitions and Terms used in the National Building Regulation Code of Good Practice

isiZulu isithezi

storm drain \rightarrow storm sewer

storm sewer

A sewer system designed to collect storm water and is separated from the waste water system. Synonym **storm drain**

Source definition: Homebuildingmanual.com

isiZulu umbhobho wamanzi ezikhukhula

strap {support}

A component, usually steel, installed to ensure that walls are connected to and restrained by floors.

Source definition: Aleck Associates Ltd.

isiZulu ibhande

stretcher {brick}

A brick whose longest side is visible on the surface of the wall.

Source definition: Aleck Associates Ltd.

isiZulu isitini esiveza uhlangothi isiZulu umhlubulo westiri isiZulu

string course

A horizontal band or course, as of stone, projecting beyond or flush with the face of a building, often moulded and sometimes richly carved.

Source definition: Dictionary.com

isiZulu ibhande elihlukanisa isakhiwo strip

flooring

A floor that comprises strips of width not less than 35 mm and not more than 90 mm and that are tongued on the one edge and grooved on the opposite edge.

Source definition: A to Z Glossary of Definitions and Terms used in the National Building Regulation Code of Good Practice

isiZulu indawo yaphansi enziwe ngomdweshu

indawo yaphansi enziwe ngamathwishi

isiZulu

structural engineering

A branch of civil engineering dealing primarily with the design and construction of structures, such as bridges, buildings, dams.

Source definition: Meriam-Webster.com

isiZulu ubujiniyela bezakhiwo

structural glass

A glass which is cast in the form of cubes, rectangular blocks, tile, or large rectangular plates; used widely for the surfacing of walls.

Source definition: Thefreedictionary.com

isiZulu isakhiwo sengilazi

stucco {*plaster*}

A type of plaster used for covering walls and ceilings, especially one that can be formed into decorative patterns.

Source definition: Dictionary.cambridge.org

isiZulu umhlobiso we-stucco

stud {upright post}

An upright post in the framework of a wall for supporting sheets of lath, drywall, or similar material.

Source definition: Thefreedictionary.com

iqhosha isitadi
isibonda insika

sump

A pit in a basement floor which collects water and into which a sump pump is placed to remove water.

Source definition: Beaufortonline.com

isiZulu isampu

surveying

The setting out on the ground of the positions of proposed construction or engineering works.

Source definition: Collinsdictionary.com

isiZulu ukuhlola

sway brace

Metal straps or wood blocks installed diagonally on the inside of a wall from bottom to top plate, to prevent the wall from twisting, racking, or falling over 'domino" fashion.

Source definition: Homebuildingmanual.com

isiZulu isiqinisi sokutengatenga isiZulu isizinzisi sokutengatenga

swing door

A door that can be pushed open from either side and that swings shut when it is released.

Source definition: Meriam-Webster.com

isiZulu umyango ojikelezayo

Т

tack weld

Short intermittent welds made to hold components in place before full welding is begun.

Source definition: Collinsdictionary.com

isiZulu ukushisela

tail beam {support}

A relatively short beam or joist supported in a wall on one end and by a header at the other.

Synonym tail joist

Source definition: Homebuildingmanual.com

isiZulu insika lencane

tail joist → tail beam

tandem roller {road}

A type of road roller in which the front and back wheels consist of rollers of about the same diameter.

Source definition: Collinsdictionary.com

isiZulu ugandaganda

tenon

A piece that is cut so that it sticks out from the end of a piece of wood and can be fitted into a hole called a mortise in another piece of wood to join them together.

Source definition: Macmillan English Dictionary

isiZulu ikhinqela isiZulu ithenoni

thatch roof

A roof covering made of straw, red palm leaves, or similar material fastened together to shed water and provide thermal insulation.

Source definition: Dictionary of Construction Terminology

isiZulu uphahla lotshani

theodolite

An optical instrument used by land surveyors for surveying and by engineers and builders for setting out lines and angles on the ground.

Source definition: Aleck Associates Ltd.

isiZulu into okuklanywa ngayo izwe

tie beam {connection}

A horizontal timber or the like for connecting two structural members to keep them from spreading apart, as a beam connecting the feet of two principal rafters in a roof truss.

Source definition: www.dictionary.com

isiZulu isibambamishayo

isiZulu ifindo yomshayo

tile

A thin slab or bent piece of baked clay, sometimes painted or glazed, used for various purposes, as to form one of the units of a roof covering, floor, or revetment.

Source definition: Dictionary.com

isiZulu	ithayela		
isiZulu	ubumba olu	ishisiwe	e ubumba
isiZulu	oluphekiwe	uhlobo	wesitini
isiZulu	sokufulela		

tower crane

A crane with a fixed vertical mast that is topped by a rotating boom and equipped with a winch for hoisting and lowering loads.

Source definition: Dictionary of Construction Terminology

isiZulu umshini wokufula izimpahla ezisindayo

 $transom \rightarrow transome$

transome

A horizontal member injoinery, for example the part of the frame between an upper and a lower window. Synonym transom

Source definition: Aleck Associates Ltd.

isiZulu itransomi

transportation engineering

A branch of engineering dealing with planning, designing, estimation, construction, operation, maintenance, rehabilitation and management of transportation infrastructure for movement of people and goods from one place to the other safely, timely, conveniently, comfortably, economically by using various modes like highways, railways, air ways, water ways and pipe ways also.

Source definition: Tem-uet.blogspot.com adapted

isiZulu ubujiniyela bezokuthutha

trap {pipe)

A U-shaped pipe below plumbing fixtures designed to create a water seal and prevent sewer odours and gases from being released into the habitable areas.

Source definition: Beaufortonline.com

isiZulu umbhobho wokuvikela iphunga umbhobho isiZulu wokuvikela ukunuka

tread {stairway}

The horizontal upper surface of a step in a stair, on which the foot is placed.

Source definition: Dictionary.com

isiZulu **isinyathelo**

trimmer {*joist*} *A joist which carries extra loads, for example, those due to an opening or partition.*

Source definition: Aleck Associates Ltd.

isiZulu ijoyisti

Synonym isifekethiso

truss

A prefabricated rigid framework used for roof and floor construction.

Source definition: ehow.com

isiZulu amakabha uhlaka lophahla amabhanuko

turbine

A machine in which the energy of a moving fluid, e.g. water, or wind is converted into mechanical energy.

Source definition: Collins English Dictionary

isiZulu umshiniwokuphehla ugesi isiZul- umshiniophendulwa amanzi

u

turret

A small tower at the comer of a building or wall, especially of a castle. Source definition: Concise Oxford English Dictionary English 11th Edition

isiZulu umbhoshongo

U

underpinning {support}

The process of supporting the existing structure for renewing or repairing the lower walls or foundations.

Source definition: Theconstructioncivil.org

isiZulu ukuqinisa ubonda Synonym ukuqinisa udonga

urbanengineering

A branch of engineering that deals with the operation and problems; as laying out additions and parks, and constructing and maintaining sewer systems, waterworks, and pavements peculiar to urban life.

Source definition: Meriam-Webster.com

isiZulu ubunjiniyela basedolobheni

V

valley {roof or wall}

An internal angle formed by the intersecting planes of a roof, or by the slope of a roof and a wall.

Source definition: Concise Oxford English Dictionary English 11th Edition

isiZulu isigodi

valley rafter {roof}

The rafter that follows the line of the valley and connects the ridge to the wall plate along the line where the two inclined, perpendicular sides of the roof meet.

Source definition: Dictionary of Construction Terminology

isiZulu ikhabha

Synonym ikapa elifishane

vault

A roof in the form of an arch or a series of arches, typical of churches and other large, formal buildings.

Source definition: Concise Oxford English Dictionary 11th Edition

isiZulu uphahla oluyingungu

veneer

A thin decorative covering of fine wood applied to a coarser wood or other material.

Source definition: Concise Oxford English Dictionary English 11th Edition

isiZulu isembozakuhlobisa ngokhuni

vent {circulation}

A pipe built into a drainage system to provide air circulation, thus preventing siphonage and back pressure from affecting the function of the trap seals.

Source definition: A to Z Gbssary of Definitions and Terms used in the National Building Regulation Code of Good Practice

isiZulu **imbobo** Synonym **isikhala**

veranda

A large, open porch, usually roofed and partly enclosed, as by a railing, often extending across the front and sides of a house.

Source definition : Dictionary.com

isiZulu **uvulande**

vitrolite {clear glass}

Panels formed of clear glass with colour glass laminated to one side and used as a wall veneer.

Source definition: Wentworthsstudio.com

isiZulu ivithrolayithi

voussoir

A wedge-shaped or tapered stone used to construct an arch.

Source definition: Concise Oxford English Dictionary English 11th Edition

isiZulu	i-voussoir	
isi Zul u	itshe le-ashi	
isiZulu	itshe lokwakha	
isi Zul u	i-ash itshe legobela	
isi Zul u	itshe lengungu	

W

wainscot

The bottom part of the walls in a room, especially when it is covered with wood.

Source definition: Macmillan English Dictionary

isiZulu umhlobisopulangwe ngaphansi kwebonda isiZulu umhlobisopulangwe ngaphansr donga

wane {defective edge in timber}

A defective edge of a board due to remaining bark or a beveled end.

Source definition: Dictionary of Construction Terminology

isiZului isici sepulangwe

waste pipe {plumbing}

A discharge pipe which conveys waste water only.

Source definition: A to Z Glossary of Definitions and Terms used in the National Building Regulation Code of Good Practice

isiZului umbhobho wezibi sZulu ipayipi yezibi isiZulu ipayipi yamanzi angcolile umbhobho wenkucunkucu

waste-water engineering

A branch of engineering that deals with the transportation and cleaning of blackwater, greywater, and irrigation water.

Source definition: Wikipedia.com adapted

isiZulu ubunjiniyela bokucitha amanzi angcolile isiZulu ubunjiniyela bokucitha amanzi wenkucunkucu

water seal

The water in a trap which acts as a barrier against the flow of any foul air or gas.

Source definition: A to Z Glossary of Definitions and Terms used in the National Building Regulation Code of Good Practice

isiZulu isivimbeli samanzi

isiZulu isivalo samanzi

water supply system

The system that supplies water throughout a building, including the service pipe(s), distribution and connecting pipes, fittings, and control valves.

Source definition: A to Z Glossary of Definitions and Terms used in the National Building Regulation Code of Good Practice

isiZulu uhlelo lokuba khona kwamanzi isiZulu uhlelo lwamanzi akhona

weep hole {drainage}

An opening at the bottom of a wall which allows the drainage of water.

Source definition: Beaufortonline.com

isiZulu umselewokumunca amanzi?

window box \rightarrow window buck

window buck

A square or rectangular box that is installed within a concrete foundation or block wall. Synonym **window box**

Source definition: A to Z Glossary of Definitions and Terms used in the National Building Regulation Code of Good Practice

isiZulu ibhoklsi lefasitela

window frame

A supporting frame for the glass of a window.

Source definition: Google.com

isZulu ifulemu lefasltele ifulemu isiZulu lewindi

window sash

The operating or moveable part of a window.

Source definition: A to Z Glossary of Definitions and Terms used in the National Building Regulation Code of Good Practice

isiZului iseshi lefasitela iseshl siZulu lewindi

wired glass

Sheet glass with wire mesh embedded in the glass to prevent shattering.

Synonym wire glass

Source definition: Dictionary of Construction Terminology

isZulu ingilazi yocingo isZulu ingilazi yothango

wire glass \rightarrow wired glass

wire nut

A plastic device used to connect bare wires together.

Source definition: A to Z Glossary of Definitions and Terms used in the National Building Regulation Code of Good Practice

isiZulu	inathi	yocingo
isiZulu	imuru	yocingo
isiZulu	imuru y	othango

wonderboard

A panel made out of concrete and fibreglass usually used as ceramic tile backing material.

Source definition: A to Z Glossary of Definitions and Terms used in the National Building Regulation Code of Good Practice

isiZulu iwandabhodi

Ζ

zone valve

A device, usually placed near the heater or cooler, which controls the flow of water or steam to parts of the building.

Source definition: A to Z Glossary of Definitions and Terms used in the National Building Regulation Code of Practice

isZulu ivalvu yokulawula ukuhamba kwamanzi zoning

{town planning}

A system of choosing areas to be developed for particular purposes, such as houses or shops, when planning town.

Source definition: Dictionary of Contemporary English 6th Edition

isiZulu ukuklanywa komkhakha womhlaba

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DEPARTMENT OF HUMAN SETTLEMENTS

NO. 262

26 March 2021

REGULATIONS UNDER THE RENTAL HOUSING ACT, 1999

I, Lindiwe Nonceba Sisulu, Minister for Human Settlements hereby publishes the draft Regulations under the Rental Housing Act, 1999, as amended for public comment. The draft Regulation is hereby attached.

Any interested persons or institutions are hereby invited to submit written comments or representations with regard to the draft Bill within 60 days of the date of publication of this notice. All comments or presentations must be submitted in writing in one of the following ways:

(a) By post to:	The Director General
	Department of Human Settlements
	Private Bag x 644
	Pretoria
	0001
or	For attention: [Ms Rose Murray and Ms Lisa Masilo]
(b) Delivered to:	The Director-General
	Department of Human Settlements
	260 Justice Mohamed Street
	For attention: [Ms L Masilo and Ms R Murray]

Or

(c) By electronic mail: [Ms Rose.Murray@dhs.gov.za and Ms Lisa.Masilo@dhs.gov.za]

Enquiries: [Ms L Masilo 012-444-9097 & Ms R Murray 012-444-9283]

Comments received after the closing date may not considered.

DEPARTMENT OF HUMAN SETTLEMENTS

No. ...

2015

REGULATIONS IN TERMS OF THE RENTAL HOUSING ACT, 50 OF 1999

The Minister of Human Settlements has under section 15 of the Rental Housing Act, 1999, made the regulations set out in the Schedule.

SCHEDULE

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CHAPTER 1

INTRODUCTORY PROVISIONS

1 Definitions

In these Regulations, any word or expression defined in the Act has the same meaning unless the context indicates otherwise, and -

"Act" means the Rental Housing Act, 1999 (Act 50 of 1999);

"common property" in relation to a multi-tenanted dwelling means -

- (a) the land on which the dwelling is situated; and
- (b) those parts of the dwelling not reserved for exclusive use of any person;

"**complaint**" means a complaint lodged by a landowner or tenant in terms of section 13 of the Act;

"**complainant**" means a tenant, landowner or a group of tenants or landowners or interest group who lodges a complaint with the Tribunal as contemplated in section 13 of the Act;

"days" when prescribed for the doing of any act or for any other purpose, is calculated by excluding the first day and including the last day, unless the last day falls on a Sunday or public holiday, in which case the time is calculated by excluding the first day and such Sunday or public holiday

"e-mail" means e-mail as defined in section 1 of the Electronic Communications and Transactions Act, 2002 (Act 25 of 2002);

"fee" means a fee determined by the Tribunal for any submission or application in terms of these Regulations;

"mediation" means the process of dispute resolution contemplated in section 13(2)(c) of the Act;

"mediator" means a person appointed as mediator by the Tribunal in accordance with section 13(2)(c);

"presiding officer" means the chairperson, deputy chairperson or member appointed as contemplated in section 10(2B) of the Act conducting a hearing as contemplated in section 13 of the Act,

"register" means the register contemplated in section 13(8) of the Act;

"**Regulations**" mean these Regulations and includes the Schedules attached hereto or referred to herein;

"**respondent**" means a person against whom a complaint has been lodged in terms of section 13 of the Act with the Tribunal; and

"services" means the provision of water, electricity, gas and refuse removal;

CHAPTER 2

SERVING AND FILING OF COMPLAINTS

2 Filing of complaint with Tribunal

A complainant may lodge a complaint as contemplated in section 13 of the Act by filing a written complaint, signed by the complainant, on the form contemplated in Schedule 1 and in the manner determined in subregulation (2).

- (2) A complaint may be filed in any one of the following ways:
 - (a) By registered post addressed to the offices of the Tribunal;
 - (b) by the physical submission of the complaint at the Rental Housing Information Office within the area of jurisdiction of the local municipality where the dwelling is situated, if applicable;
 - by the physical submission of the complaint at the office of the relevant Tribunal;
 - (d) by facsimile to the offices of the Tribunal; and
 - (e) by e-mail to the official address determined by the Tribunal for that purposes.
(3) A complainant who files a complaint by means of a facsimile as contemplated in subregulation (2)(d) must –

- (a) record the name and surname of the person receiving the facsimile at the office of the Tribunal on his or her original complaint; and
- (b) file the original complaint if requested to do so by the Tribunal within seven days after being requested to do so.

(4) A complainant who files a complaint by means of an e-mail contemplated in subregulation (2)(e) must file the original complaint if requested to do so by the Tribunal within seven days after being requested to do so.

3 Tribunal's responsibilities on receipt of complaint

The following steps must be taken in respect of any complaint received by the Tribunal:

- (a) A file must be opened and a reference number must be allocated to the complaint;
- (b) the particulars of the dwelling to which the complaint refers must be listed in the register referred to in section 13 (8) of the Act;
- the complainant must be provided with an acknowledgement of receipt of the complaint which contains the reference number of the complaint;
- (d) the Tribunal must conduct such preliminary investigations as may be necessary to determine whether the complaint relates to a dispute in respect of a matter which may constitute an unfair practice, and for this purpose any additional information required to provide a full and complete description of the matter may be obtained from either the complainant or the respondent alleged to be involved in the unfair practice concerned;
- (e) if the Tribunal considers it necessary, it may instruct an inspector to compile a report on the complaint and if considered desirable require the inspector to first inspect the property concerned;
- (f) the Tribunal must within 30 days of the receipt of the complaint, determine, as contemplated by section 13(2)(b) of the Act, whether the complaint relates to a dispute in respect of a matter which may constitute an unfair practice; and
- (g) the determination contemplated by paragraph (f) must be recorded in the file referred to in paragraph (a).

4 Requirements if no dispute exists

If the Tribunal determines that the complaint does not relate to a dispute in respect of a matter which may constitute an unfair practice, the Tribunal must, within seven days of making the determination -

- (a) notify the complainant and any other affected party in writing of its determination;
- (b) if possible, furnish the complainant with an appropriate institution to which the matter should be referred, and
- (c) record that the matter has been disposed of and close the relevant file.

5 Procedure on determination that dispute exists

If the Tribunal has determined that a complaint does relate to a dispute in respect of a matter which may constitute an unfair practice, the Tribunal must—

- (a) further determine whether in its view the dispute may be resolved by mediation or whether in its view the dispute is of such a nature that it cannot be resolved by mediation; and
- (b) cause its further determination contemplated by paragraph (a) to be recorded on the relevant file; and
- (c) in writing, inform the parties of that further determination;
- (d) if it has determined that the dispute may be resolved by mediation, appoint a mediator in terms of section 13(2)(c) of the Act; or
- (e) if it has determined that the dispute is of such a nature that it cannot be resolved by mediation, arrange for a formal dispute hearing of the complaint, and, in writing, inform the parties of the particulars of the hearing.

6 Serving complaint on respondent

(1) A complainant must serve the complaint filed with the Tribunal on the respondent –

- (a) By handing a copy of the complaint to
 - (i) the respondent;
 - (ii) a representative authorised in writing to accept service on behalf of the respondent;
 - (iii) a person who appears to be at least 16 years old and in charge of the respondent's place of residence, business or place of employment premises at the time; or
 - (iv) a person referred to in subregulation (2);
- (b) by leaving a copy of the document at-

- (i) an address chosen by the respondent to receive service; or
- (ii) any premises in accordance with subregulation (3);
- by faxing or telexing a copy of the document to the respondent's fax or telex number respectively, or a number chosen by the respondent to receive service;
- (d) by sending a copy of the document by registered post or telegram to the last- known address of the party or an address chosen by the party to receive service; or
- (e) by sending a copy of the document by e-mail to the respondent to the email address chosen by the respondent to receive service.
- (2) A complaint may also be served-
 - (a) on a company or other body corporate, by handing a copy of the complaint to a responsible employee of the company or body at its registered office, its principal place of business within the Republic or its main place of business;
 - (b) on a partnership, firm or association, by handing a copy of the complaint to a responsible employee or official at the place of business of the partnership, firm or association or, if it has no place of business, by serving a copy of the document on a partner, the owner of the firm or the chairman or secretary of the managing or other controlling body of the association, as the case may be;
 - (c) on a municipality, by serving a copy of the complaint on the municipal manager or any person acting on behalf of that person;
 - (d) on a statutory body, by handing a copy of the complaint to the secretary or similar officer or member of the board or committee of that body, or any person acting on behalf of that body;
 - (e) on a provincial department, by handing a copy of the complaint to a responsible employee at the head office of that department.

(3) If no person identified in subregulation (2) is willing to accept service, service may be effected by affixing a copy of the document to-

- (a) the main door of the premises concerned; or
- (b) if this is not accessible, a post-box or other place to which the public has access.

(4) The Tribunal or a presiding officer may order service in a manner other than prescribed in this regulation.

7 Proof of service of complaint on respondent

(1) A party must prove to the Tribunal or presiding officer that a document was served in terms of these Regulations, by providing the Tribunal or presiding officer -

- (a) with a copy of proof of mailing the complaint by registered post to the other party;
- (b) with a copy of the facsimile transmission report indicating the successful transmission to the respondent of the whole document; or
- (c) if a document was served by hand -
 - (i) with a copy of a receipt signed by, or on behalf of, the other party clearly indicating the name and designation of the recipient and the place, time and date of service; or
 - (ii) with a statement confirming service signed by the person who delivered a copy of the document to the other party or left it at any premises.

(2) If proof of service in accordance with subregulation (1) is provided, it is presumed, until the contrary is proved, that the party on whom it was served has knowledge of the contents of the document.

(3) The Tribunal may accept proof of service in a manner other than prescribed in this rule, as sufficient.

8 Complaint or document sent by registered post

Any complaint or document sent by registered post by a party or the Tribunal is presumed, until the contrary is proved, to have been received by the person to whom it was sent seven days after it was posted.

9 Notice of proceedings before Tribunal

The Tribunal may provide notice of a mediation session or dispute hearing before it by means of any method referred to in regulation 6 and may, in addition, give notice by means of short message service.

10 Condonation for document delivered late

(1) This regulation applies to any document delivered outside of the applicable time period prescribed in these Regulations.

(2) A party must apply for condonation when delivering the document to the Tribunal.

(3) An application for condonation must set out the grounds for seeking condonation and must include details of the following:

(a) the degree of lateness;

- (b) the reasons for the lateness;
- (c) the referring parties' prospects of succeeding with the referral and obtaining the relief sought against the other party;
- (d) any prejudice to the other party; and
- (e) any other relevant factors.
- (4) The Tribunal may assist a referring party to comply with this regulation.

11 Electronic submissions

- (1) Where these Regulations -
 - (a) require a person to -
 - (i) submit a document, a copy of a document or any notice to another person,
 - (ii) notify another person of any matter; and
 - (b) that other person has an address for the purposes of electronic communications,

the document, copy, notice or notification may be sent or made by way of electronic communications.

(2) Where these Regulations permit a person to make representations on any matter or document, those representations may be made—

- (a) in writing, or
- (b) by way of electronic communications
- (3) The Electronic Communications and Transactions Act, 2002 (Act No. 25 of 2002) apply to any electronic communication made in terms of this regulation.

CHAPTER 3

MEDIATION

12 Notification of mediation

(1) If the Tribunal is of the view that a dispute may be resolved through mediation, it must notify the parties to the dispute of its decision to mediate the dispute.

(2) Notice of its decision to mediate and the date of the mediation session must be in writing and must be given in accordance with the methods provided for in regulation 6 at least 7 days before the scheduled date of the mediation session unless the method used is by registered post, in which case notice must be given 28 days before the scheduled date of the mediation session.

- (3) The parties to the dispute may agree to a shorter period of notice.
- (4) If a dispute arises between parties to an agreement, the parties may of their

own volition decide to resolve that dispute through mediation.

13 Tribunal may seek to resolve dispute before mediation session

The Tribunal or mediator may contact the parties by telephone or other means, prior to the commencement of the mediation session, in order to seek to resolve the dispute.

14 Failure to attend mediation session

(1) The parties to a dispute must attend a mediation session in person, irrespective of whether they are represented or not.

(2) If a party is represented at the mediation session but fails to attend in person, the mediator may-

- (a) continue with the proceedings in the absence of that party;
- (b) adjourn the proceedings to a later date; or
- (c) dismiss the matter by issuing a written ruling.
- (3) In exercising a discretion in terms of subregulation (2), a mediator must take

into account, amongst other things -

- (a) whether the party has previously failed to attend a mediation session in respect of that dispute;
- (b) any reason given for that party's failure to attend;
- (c) whether mediation can take place effectively in the absence of that party;
- (d) the likely prejudice to the other party of the mediator's ruling; and
- (e) any other relevant factors.

(4) A mediator must be satisfied that the party had been properly notified of the date, time and venue of the proceedings, before making any decision in terms of subregulation (2).

(5) If a matter is dismissed, the Tribunal must send a copy of the ruling to the parties.

15 Mediation proceedings may not be disclosed

(1) Mediation proceedings are private and confidential and are conducted on a without prejudice basis.

(2) No person may refer to anything said at mediation proceedings during any subsequent proceedings, unless the parties agree thereto in writing.

(3) No person, including a mediator, may be called as a witness during any subsequent proceedings in the Tribunal or in any court to give evidence about what transpired during mediation.

16 Mediation proceedings

- (1) The mediation session shall be conducted as follows:
 - (a) The mediator shall explicitly discuss the issue of confidentiality with the parties prior to the commencement of any mediation session;
 - (b) the mediator must at the start of the mediation session inform the parties that –
 - (i) he or she merely acts as a facilitator in an attempt to resolve the dispute between them and that the decision to be arrived at will be the decision of the parties and not his or her decision; and
 - (ii) the mediation process will be conducted such that
 - (aa) each party will be given an opportunity to outline their case;
 - (bb) each party may, at any stage of the proceedings, recess into caucus, in another room or office;
 - (cc) if the respective party does not have any objection thereto, then the mediator may attend the caucus meeting and make suggestions and proposals;
 - (dd) if the party in the caucus meeting does not have any objection, then the mediator may convey any proposal, attitude or indication or suggestion stemming from the caucus meeting to the other party.
 - (c) the mediator must conduct mediation only in those disputes in which he or she can be impartial with respect of all of the parties and the subject matter of the dispute;
 - (d) the mediator must disclose to the parties all actual or potential conflicts of interest;
 - (e) the mediator must not conduct mediation unless the parties, after being informed of the actual or potential conflict, give their consent and the mediator determines that the conflict is not so significant as to cast doubt of the integrity of the process on himself or herself;
 - (f) if, at any time, the mediator believes that any party to the mediation is unable to understand and participate fully in the proceedings due to mental impairment, emotional disturbance, intoxication, language barriers or other reasons, the mediator must limit the scope of the mediation to a level consistent with the party's ability to participate and make a recommendation that the party may obtain appropriate

assistance in order to continue with the process or terminate, adjourn or postpone the mediation session.

(2) The mediator must attempt to obtain testimony or documents voluntarily, which he or she considers necessary, from a person who is not party to the mediation and record all efforts made to obtain the information in the file.

(3) If the required testimony or documentation cannot be obtained voluntarily, the mediator may issue summons in the form of a subpoena as contemplated in Schedule 2 to these Regulations.

(4) The issue of a subpoena must be authorised by the Tribunal.

(5) A mediation process must be completed within 30 days from the date of delivery of the notice of mediation referred to in regulation 8: Provided that the Tribunal may agree to extend the period for a further 30 days.

(6) If the parties cannot reach agreement through mediation the matter must be referred to the Tribunal for a formal hearing and ruling in terms of the Act and the mediator must submit a report summarising the evidence to the Tribunal.

(7) If the mediation results in an agreement, it must be reduced to writing and signed by all the parties and the mediator.

(8) Before signing an agreement contemplated in subregulation (7) the mediator must ensure that each party fully understands the agreement and is entering into it voluntarily.

(9) No party may be coerced in any manner to reach agreement.

(10) A mediation agreement must be recorded in the register.

17 Failure to comply with mediation agreement

(1) If any party to a mediation agreement referred to in section 16(7) alleges that the other party has failed to comply with the provision of the mediation agreement, that party may seek relief by reporting the allegations to the Tribunal.

(2) Upon receipt of an allegation contemplated in subregulation (2) the Tribunal must conduct an investigation into such allegation to determine whether the clauses of the mediation agreement are being adhered to.

(3) If the Tribunal finds that a party is not adhering to the terms of a mediation agreement, the Tribunal must conduct a hearing and make such a ruling as it considers necessary.

CHAPTER 4

DISPUTE HEARINGS

18 Tribunal of record

- (1) The Tribunal is a tribunal of record and a record must be kept of -
 - (a) any decision of the Tribunal;
 - (b) any evidence given to the Tribunal;
 - (c) any objections made to any evidence received or tendered;
 - (d) any on-site inspection and any matter recorded as a result thereof; and
 - (e) the proceedings of the Tribunal generally.

(2) The record referred to in subregulation (1) must be kept by such means, including legible notes or digital recording, as the Tribunal may deem expedient.

(3) The record must be certified as correct by the presiding officer and thereafter filed in the register.

(4) A party may request a copy of the record or a portion of a record kept in terms of this regulation, on payment of the applicable fee.

19 Notification of dispute hearing

The Tribunal must give written notice of the date of the dispute hearing and such notice must be given in accordance with the methods provided for in regulation (6) at least 21 days before the scheduled date of the dispute hearing unless the method used is by registered post, in which case notice must be given 28 days before the scheduled date of the dispute hearing.

20 Issuing of subpoena

(1) Any party who requires the Tribunal or a presiding officer to subpoena a person must file a completed form as contemplated in Schedule 2 together with a written motivation setting out why the evidence of the person to be subpoenaed is necessary.

(2) The subpoena must, in addition to the written motivation required in terms of subregulation (1), set out in clear terms –

(a) the full names of the person from whom the information is required;

- (b) the information that is required; and
- (c) the book, document or thing to be produced.

(3) A party requesting the Tribunal to waive the requirement for the party to pay witness fees in terms of regulation 5 must set out the reasons for the request in writing at the time of requesting the Tribunal to issue a subpoena in respect of that witness.

(4) An application in terms of subregulation (1) must be filed with the Tribunal at least14 days before the dispute hearing, or as directed by the presiding officer hearing the complaint.

- (5) The Tribunal or the presiding officer may refuse to issue a subpoena if-
 - (a) the party does not establish why the evidence of the person is necessary;
 - (b) the party subpoenaed does not have a reasonable period in which to comply with the subpoena;
 - (c) the Tribunal or the presiding officer is not satisfied that the party has made arrangements to pay the witness fees and the reasonable travel costs of the person subpoenaed.

(6) A subpoena must be served on the witness subpoenaed or his or her nominated agent personally -

- (a) by the person who has requested the issue of the subpoena or by the Sheriff, at least seven days before the scheduled date of the dispute hearing; and
- (b) if so directed by the Tribunal, accompanied by payment of the witness fees for one day in accordance with the tariff of allowances referred to in regulation 5 and the witnesses' reasonable travel costs.

21 Expert witness

A party intending to call an expert witness must give seven days' prior to the dispute hearing, notice thereof to the Tribunal and the other party together with a summary of the proposed evidence of such witness, any document on which the witness will rely during evidence and the basis on which the witness is regarded to be an expert, to enable the other party to consider the summary and obviate the need for postponement.

22 Filing of statements

- (1) The Tribunal or presiding officer may direct-
 - (a) the referring party in a mediation to deliver a statement of case; and
 - (b) the other party to deliver an answering statement.
- (2) A statement in terms of subregulation (1) must-
 - (a) set out the material facts upon which the party relies and the legal issues that arise from the material facts;
 - (b) be delivered within the time-period specified by the presiding officer.

23 Pre-hearing conference

(1) The parties to a dispute hearing must hold a pre-hearing conference dealing with the matters referred to in subregulation (2), if directed to do so by the Tribunal.

(2) In a pre-hearing conference, the parties must attempt to reach consensus on the following:

- (a) any means by which the dispute may be settled;
- (b) facts that are agreed between the parties;
- (c) facts that are in dispute;
- (d) the issues that the Tribunal is required to decide;
- the precise relief claimed and if compensation is claimed, the amount of the compensation and how it is calculated;
- (f) the sharing and exchange of relevant documents, and the preparation of a bundle of documents in chronological order with each page numbered;
- (g) the manner in which documentary evidence is to be dealt with, including any agreement on the status of documents and whether documents, or parts of documents, will serve as evidence of what they appear to be;
- (h) whether evidence on affidavit will be admitted with or without the right of any party to cross-examine the person who made the affidavit;
- (i) which party must begin;
- (j) the necessity for any on-the-spot inspection;
- (k) securing the presence at the Tribunal of any witness;
- (I) the resolution of any preliminary points that are intended to be taken;
- (m) the exchange of witness statements;
- (n) expert evidence;
- (o) any other means by which the proceedings may be shortened;
- (p) an estimate of the time required for the dispute hearing;
- (q) the right of representation; and
- (r) whether an interpreter is required and, if so, for how long and for which languages.

(3) Unless a dispute is settled, the parties must draw up and sign a minute setting out the facts on which the parties agree or disagree.

(4) A minute in terms of subregulation (3) may also deal with any other matter listed in subregulation (2).

(5) The referring party must ensure that a copy of the pre-hearing conference minute is delivered to the appointed presiding officer within seven days of the conclusion of the pre-hearing conference.

(6) The presiding officer may, after receiving a pre-hearing minute referred to in subregulation (3) –

- (a) enrol the matter for hearing
- (b) direct the parties to hold a further pre-hearing conference; or
- (c) make any other direction to the parties concerning the conduct of the dispute hearing.

(7) The parties to a dispute hearing may agree to hold a pre-hearing conference in terms of this subregulation.

24 Jurisdiction of Tribunal

If during the dispute hearing it appears to the presiding officer that the Tribunal maynot have jurisdiction to hear the dispute, that presiding officer must require the complainant to prove that the Tribunal has jurisdiction.

25 Postponement of dispute hearing

- (1) A dispute hearing may be postponed-
 - (a) in the event of an emergency;
 - (b) by agreement between the parties in terms of subregulation (2); or
 - by application and on notice to the other parties in terms of subregulation (3).
- (2) The Tribunal must postpone a dispute hearing without the parties appearing if-
 - (a) all the parties to the dispute agree in writing to the postponement; and
 - (b) the written agreement for the postponement is received by the Tribunal more than seven days prior to the scheduled date of the dispute hearing.

(3) If the conditions of subregulation (2) are not met, any party may apply in terms of regulation 30 to postpone a dispute hearing by delivering an application to the other parties to the dispute and filing a copy with the Tribunal before the scheduled date of the dispute hearing.

- (4) After considering the written application, the Tribunal may-
 - (a) without convening a hearing, postpone the matter; or
 - (b) convene a hearing to determine whether to postpone the matter.

26 Representation before Tribunal

 (1) (a) In a mediation session a party to the dispute may appear in person or be represented only by, if that party is a juristic person, a director or employee of that party and if it is a close corporation, a member thereof;

- (b) In any dispute hearing, a party to the dispute may appear in person or be represented only by -
 - (i) if that party is a juristic person, a director or employee of that party and if it is a close corporation, a member thereof;
 - (ii) if that party is a local municipality or provincial department, by the employee delegated to appear; or
 - (ii) a legal practitioner.

(2) If a party to the dispute objects to the representation of another party to the dispute or the presiding officer suspects that the representative of a party does not qualify in terms of this regulation, the presiding officer must determine the issue.

(3) The presiding officer may call upon the representative to establish why the representative should be permitted to appear in terms of this regulation.

(4) A representative must tender any documents requested by the presiding officer.

27 Joinder or substitution of party to proceedings

(1) The Tribunal or presiding officer may join any number of persons as parties in proceedings if their right to relief depends on substantially the same question of law orfact.

(2) A presiding officer may make an order joining any person as a party in the proceedings if the party to be joined has a substantial interest in the subject matter of the proceedings.

(3) A presiding officer may make an order in terms of subregulation (2) -

- (a) of its own accord;
- (b) on application by a party; or
- (c) if a person entitled to join the proceedings applies at any time during the proceedings to intervene as a party.

(4) An application in terms of this regulation must be made in terms of regulation

30.

- (5) When making an order in terms of subregulation (2), a presiding officer may-
 - (a) give appropriate directions as to the further procedure in the proceedings; and
 - (b) make an order of costs in accordance with these Regulations.
- (6) If in any proceedings it becomes necessary to substitute a person for an

existing party, any party to the proceedings may apply to the Tribunal for an order substituting that party for an existing party, and a presiding officer may make such order or give appropriate directions as to the further procedure in the proceedings.

(7) An application to join any person as a party to proceedings or to be substituted for an existing party must be accompanied by copies of all documents previously delivered, unless the person concerned or that person's representative is already in possession of the documents.

(8) Subject to any order made in terms of subregulation (5) and (6), a joinder or substitution in terms of this regulation does not affect any steps already taken in the proceedings.

28 Correcting citation of party

If a party to any proceedings has been incorrectly or defectively cited, the Tribunal may, on application and on notice to the parties concerned, correct the error or defect.

29 Consolidation of disputes

The Tribunal or presiding officer, of its own accord or on application, may consolidate more than one dispute so that the disputes may be dealt with in the same proceedings.

30 Disclosure of documents

(1) All relevant documents must be disclosed by the parties before commencement of the dispute hearing.

(2) Either party may request a presiding officer to make an order as to the disclosure of relevant documents.

(3) The parties may agree on the disclosure of documents.

31 Failure to attend proceedings before Tribunal

(1) If a party to the dispute fails to attend or be represented at any proceedings before the Tribunal and that party-

- had referred the dispute to the Tribunal, a presiding officer may dismiss the matter by issuing a written ruling; or
- (b) had not referred the matter to the Tribunal, the presiding officer may-
 - (i) continue with the proceedings in the absence of that party; or
 - (ii) adjourn the proceedings to a later date.

(2) A presiding officer must be satisfied that the party had been properly notified of the date, time and venue of the proceedings, before making any decision in terms of subregulation (1).

(3) If a matter is dismissed, the Tribunal must send a copy of the ruling to the parties.

32 Payment of witness fees

(1) A witness summoned to give evidence before the Tribunal is entitled to such fees and costs as are specified in the tariff of allowances payable to witnesses in civil cases prescribed under section 51(*bis*) of the Magistrate's Court Act, 1944 (Act 32 of 1944).

(2) The Tribunal must pay the applicable witness fee to each person who appears before a presiding officer in response to a subpoena issued by the Tribunal.

(3) Any person who requests the Tribunal to issue a subpoena must pay the witness fee too each person who appears before a presiding officer in response to the subpoena and who remains in attendance until excused by the presiding officer.

(4) The Tribunal may on good cause shown waive the requirement in subregulation(2) and pay to the witness the prescribed witness fee.

(5) Despite the provisions of subregulation (1) and (2) the presiding officer may, in appropriate circumstances, order that a witness receive no fee or only part of the applicable witness.

33 Cost order

(1) In any proceedings of the Tribunal, the presiding officer may make an order for the payment of costs according to section 13(12)(a) of the Act and when doing so have regard to -

- (a) the measure of success that the parties achieved;
- (b) consideration of fairness that weighs in favour or against granting a cost order;
- (c) any with prejudice offers that were made with a view to settling the dispute;
- (d) whether a party or the person who represented that party in the proceedings acted in a frivolous or vexatious manner –
 - (i) by proceeding with or defending the dispute in the proceedings;
 - (ii) in his or her conduct during the proceedings;
- (e) the effect that a cost order may have on a continued rental relationship;
- (f) any agreement concluded between the parties concerning the basis on which costs should be awarded;
- (g) the importance of the issues raised during the proceedings to the parties as well as to the rental property community at large; and
- (h) any other relevant factor.

(2) A presiding officer may make an award of costs in favour of a party who is represented by another person in any proceedings of the Tribunal, in respect of reasonable disbursements actually incurred in the conduct of the proceedings.

(3) The presiding officer who makes an order for the payment of costs according to this regulation must clearly specify the items and amounts in respect of which the costs are ordered.

(4) A presiding officer may make an award of costs in respect of the legal fees of a party that is represented in any proceeding of the Tribunal by a legal practitioner, only if the other party were represented by a legal practitioner.

(5) Any dispute concerning an award of costs must be submitted to the Tribunal.

CHAPTER 5

CONDONATION, JOINDER, SUBSTITUTION, VARIATION OR RECISION

34 Submission of application for condonation, joinder, substitution, variation or rescision

(1) This regulation applies to any application for condonation, joinder, substitution, variation or rescission.

(2) An application must be brought on notice to all persons who have an interest in the application.

(3) The party bringing the application must sign the notice of application in accordance with regulation 6 and must state-

- (a) the title of the matter;
- (b) the case number assigned to the matter by the Tribunal;
- (c) the relief sought;
- (d) the address at which the party delivering the document will accept delivery of all documents and proceedings;
- that any party that intends to oppose the matter must deliver a notice of opposition and answering affidavit within fourteen days after the application has been delivered to it;
- (f) that the application may be heard in the absence of a party that does not comply with subparagraph (e);
- (g) that a schedule is included listing the documents that are material and relevant to the application.

(4) The application must be supported by an affidavit and the affidavit must clearly and concisely set out-

- (a) the names, description and addresses of the parties;
- (b) a statement of the material facts, in chronological order, on which the application is based, in sufficient detail to enable any person opposing the application to reply to the facts;

- (c) a statement of legal issues that arise from the material facts, in sufficient detail to enable any party to reply to the document;
- (d) if the application is filed outside the relevant time period, grounds for condonation in accordance with subregulation (9); and
- (e) if the application is brought urgently, the circumstances why the matter is urgent and the reasons why it cannot be dealt with in accordance with the time frames prescribed in these Regulations.
- (5) (a) Any party opposing the application may deliver a notice of opposition and an answering affidavit within fourteen days from the day on which the application was served on that party.
 - (b) A notice of opposition and an answering affidavit must contain, with the changes required by the context, the information required by subregulation (3) and (4) respectively.
- (6) (a) The party initiating the proceedings may deliver a replying affidavit within seven days from the day on which any notice of opposition and answering affidavit are served on it.
 - (b) The replying affidavit must address only issues raised in the answering affidavit and may not introduce new issues of fact or law.

(7) A presiding officer may permit the affidavits referred to in this regulation to be substituted by a written statement.

- (8) In an urgent application, the Tribunal or a presiding officer -
 - (a) may dispense with the requirements of this regulation; and
 - (b) may only grant an order against a party that has had reasonable notice of the application.
- (9) (a) The Tribunal must allocate a date for the hearing of the application once a replying affidavit is delivered, or once the time limit for delivering a replying affidavit has lapsed, whichever occurs first.
 - (b) The Tribunal must notify the parties of the date, time and place of the hearing of the application.
 - (c) Applications may be heard on a motion roll.

(10) Despite this regulation, the Tribunal or a presiding officer may determine an application in any manner it deems fit.

35 Variation or rescission of Tribunal ruling

(1) An application for the variation or rescission of a Tribunal ruling must be made within 14 days of the date on which the applicant became aware of -

(a) the Tribunal ruling; or

(b) a mistake common to the parties to the proceedings.

(2) A ruling made by a presiding officer which has the effect of a final order, will be regarded as a ruling for the purposes of this regulation.

CHAPTER 6

APPEALS

Part A: Appeal Adjudicators

36 Selection of panel of appeal adjudicator

(1) An appeal against a dispute ruling of the Tribunal must be heard by an appeal adjudicator appointed by the MEC from a panel of adjudicators in terms of section 17A of the Act.

(2) The MEC must create and update a panel of appeal adjudicators composed by him and her, every three years, from nominations received in terms of these Regulations.

(3) The MEC must invite nominations on the form contemplated in Schedule 3 and from the nominations received appoint those persons who qualify for appointment as contemplated in section 17A to the panel of appeal adjudicators.

(4) A person who is appointed to the panel of appeal adjudicators must, on appointment sign a code of conduct referred to in Schedule 4.

37 Functions of appeal adjudicator

(1) The appeal adjudicator must consider and decide all appeals referred to it by the MEC in terms of the Act.

(2) The appeal adjudicator must keep a record of all appeal proceedings presided over by him or her.

(3) The appeal adjudicator must provide the reasons for any decision or determination made by it.

(4) The appeal adjudicator must provide the Tribunal with the outcome of the appeal for recording in the register referred to in section 8 of the Act.

38 Disqualification from appointment as appeal adjudicator

(1) A person may not be appointed or continue to serve as an appeal adjudicator, if that person –

- (a) is not a citizen of the Republic, and resident in the province;
- (b) is a member of parliament, a provincial legislature, a house of leaders or a municipal council in terms of the constitution.
- (c) is an un-rehabilitated insolvent;
- (d) is of unsound mind, as declared by a court;

- (e) has at any time been convicted of an offence involving dishonesty;
- (f) has at any time been removed from an office of trust on account of misconduct; or
- (g) has previously been removed from a Tribunal for a breach of any provision of the Act.

(2) An appeal adjudicator must vacate office if he or she becomes subject to a disqualification as contemplated in subsection (1).

39 Conflict of interest

- (1) An appeal adjudicator
 - (a) must make full disclosure of any conflict of interest including any potential conflict of interest in any matter which he or she is appointed to consider;
 - (b) may not decide any appeal in relation to any matter in respect of which he or she has a conflict of interest.

(2) For the purposes of this regulation, an appeal adjudicator has a conflict of interest

if –

- (a) the appeal adjudicator, or a family member, partner or business associate of the appeal adjudicator is the appellant or respondent in terms of a dispute serving before the Tribunal, or if the appeal adjudicator has a pecuniary or material interest in the ruling that has been appealed; or
- (b) the appeal adjudicator has any other interest that may preclude, or may reasonably be perceived as precluding the appeal adjudicator from performing his or her functions in a fair, unbiased and proper manner.
- (c) the appeal adjudicator is in the full-time employment of a party to the appeal.

Part B: Procedure for Appeals

40 Notice of appeal

(1) A person who has lodged an appeal must simultaneously give notice of the appeal to the Tribunal and the other party to the dispute hearing.

(2) The Tribunal or the other party to whom a notice of appeal has been given in terms of subsections (1) may oppose the appeal.

41 Hearing of appeal

After an appeal has been lodged, the MEC must -

- (a) refer the appeal to the appeal adjudicator and must determine a date and time for the hearing of the appeal; and
- (b) notify the appellant, the Tribunal and the other party to the dispute ruling who has opposed the appeal of the date and time of the hearing of the appeal.

42 Jurisdiction of appeal adjudicator

An appeal adjudicator referred to in section 17A of the Act, considers an appeal on one or more of the following:

- (a) the procedure of conducting the dispute hearing was procedurally unfair as contemplated in the Promotion of Administrative Justice Act, 2000 (Act No. 3 of 2000); or
- (b) the merits of the ruling.

43 Hearing by appeal adjudicator

- (1) An appeal may be heard by an appeal adjudicator by means of -
 - (a) a written hearing; or
 - (b) an oral hearing.

(2) A written hearing may be held if it appears to the appeal adjudicator that the issues for determination of the appeal can be adequately determined in the absence of the parties by considering the documents or other material lodged with or provided to him or her.

- (3) An oral hearing may be held
 - (a) if it appears to the appeal adjudicator that the issues for determination of the appeal cannot be adequately determined in the absence of the parties by considering the documents or other material lodged with or provided to it; or
 - (b) if such hearing would assist in the expeditious and fair disposal of the appeal.

(4) If appropriate in the circumstances, the oral hearing may be held by electronic means.

44 Representation before appeal adjudicator

If the appeal adjudicator decides to hold an oral hearing, any party to the appeal proceedings may appear in person or may be represented by another person.

45 Opportunity to make submissions and inspect documents

The appeal adjudicator must ensure that every party to a proceeding before the appeal adjudicator is given an opportunity to present his or her case and, in particular, to inspect

any documents to which the appeal adjudicator proposes to have regard in reaching a decision in the proceeding and to make submissions in relation to those documents.

STAATSKOERANT, 26 MAART 2021

46 Decision of appeal adjudicator

- (1) An appeal adjudicator must -
 - (a) consider and determine all appeals lawfully submitted to him or her;
 - (b) confirm, vary or revoke the decision of the Tribunal;
 - (c) provide written reasons for any decision made by him or her;
 - (d) give directions relevant to its functions to the Tribunal;
 - (e) keep a record of all the proceedings of the appeal; and
 - (f) determine whether the appeal falls within its jurisdiction.

(2) If the appeal adjudicator revokes a decision of the Tribunal it may remit the matter to the Tribunal or replace the decision with any decision it regards necessary.

(3) The MEC may appoint a technical adviser to advise or assist the appeal adjudicator with regard to a matter forming part of the appeal.

47 Determination of appeal

(1) An appeal must be heard by the appeal adjudicator within a period of 30 days of the date on which the appeal was referred to the appeal adjudicator by the MEC.

(2) After the appeal has been determined, the MEC must inform the appellant, the Tribunal and the other party to the dispute hearing accordingly.

CHAPTER 7

NORMS AND STANDARDS

WE REQUIRE THE POLICY FRAMEWORK REFERRED TO IN SECTION 2(3) OF THE ACT IN ORDER TO COMPLETE THIS CHAPTER

48 Terms and conditions of lease agreement

(1) A written lease agreement must comply with the provisions of the Act and contain the clauses required in terms of section 5 thereof.

(2) A landowner must provide all services agreed to in the lease agreement.

(3) A landowner and a tenant may include in a lease agreement terms and

conditions not prohibited by these Regulations, the Act or any other law.

- (4) A lease agreement must exclude any provision which
 - imposes a penalty for late payment of rent whether or not the penalty rakes the form of an administrative charge or any other form other than interest;

- (b) excludes the liability of either party for failing to comply with a duty under the lease agreement, these Regulations, the Act or any other law;
- (c) limits or prevents either party from using the normal rights of recourse against the other because of the other's failure to comply with any duty under the lease agreement, these Regulations, the Act or any other law; or
- (d) precludes wither party from being a member of a landowner's or tenant's association.

49 Safety, health and hygiene requirements for rental housing

- (1) A landowner must
 - (a) maintain the common property, if any, in good order or repair;
 - (b) maintain the outside of the dwelling, including the walls and roof in good order and repair;
 - (c) maintain the electrical, plumbing, sanitary, heating, ventilation, air conditioning systems and elevator system of the common property in good order and repair;
 - (d) repair any damage to the dwelling or common area caused by fair wear and tear;
 - (e) provide and maintain appropriate container and places for the removal of ashes, garbage, rubbish and other waste incidental to the dwelling and arrange for its removal;
 - (f) effect repairs for which a landowner is responsible for under a lease agreement and as identified during inspections by the landowner or on receipt of a notice from the tenant to do such repairs, but a landowner is not responsible for such repairs if a tenant, his or her household members or visitors brought about the state of disrepair; and
 - (g) effect the repairs referred to in paragraph (f) within 14 days of receipt of notice from the tenant or such further period as may be agreed to between the landowner and tenant.
- (2) A tenant must
 - use the dwelling in a proper manner and for the purpose for which it is let, and in a manner which does not contravene the Act, these Regulations or any other law;
 - (b) dispose from the dwelling all ashes, garbage, rubbish and other wastein a clean and safe manner;
 - (c) maintain the dwelling in a clean, tidy and safe state of repair;

- in a reasonable manner use all electrical, plumbing, sanitary heating, ventilating, air-conditioning and other facilities and appliances, including elevators, on the premises;
- (e) refrain from intentionally or negligently damaging, defacing, impairing or removing any part of the dwelling or common property or knowingly permitting any person to do so, who is on the premises with the tenant's permission or allowed access to the premises by the tenant and the tenant is liable for the repair of such damage, fair wear and tear excluded, at the tenant's own cost;
- (f) return the dwelling in the same condition as the tenant received it in, fair wear and tear excluded;
- (g) replace globes and maintain, replace or repair electrical fittings and switches
- (h) maintain, replace or repair all water-borne taps, stoves, locks handles and windows where such damage is not due to natural causes;
- (i) maintain the garden, if any, and keep the same in a neat and tidy condition;
- (j) comply with the House Rules; which are enforceable pursuant to these Regulations;
- (k) maintain the swimming pool, including but not limited to, all pumps, hoses and accessories, in good order and repair, subject to fair wear and tear.

50 Basic living conditions

A landowner must let a dwelling which at the commencement of the lease is in a condition –

- (a) that is habitable; and
- (b) which complies with these Regulations, the Act and any other law.

CHAPTER 8

GENERAL MATTERS

51 Short title and date of commencement

These Regulations are called the Rental Housing Tribunal Regulations, 2018 and comes into operation on the date determined by the Minister by publication of a notice thereof in the *Gazette*.

SCHEDULE 1

COMPLAINTFORM

COMPLAINT FORM FOR THE RENTAL HOUSING TRIBUNAL

FOR OFFICIAL USE

REFERENCE NO:

A. PARTICULARS OF COMPLAINANT

TITLE: NAME:	
CAPACITY e.g. LANDLORD OR TENANT:	
ID NUMBER:	
ADDRESS (FLAT NAME, ROOM NO., STREET NAME):	
POSTAL ADDRESS:	
TELEPHONE (H): (W)	
FAX:	

B. DETAILS OF DWELLING

ADDRESS WHERE THE SUBJECT MATTER OF THE DISPUTE IS SITUATED:

DESCRIPTION OF DWELLING: HOUSE / FLAT / ROOM / GARAGE / HOSTEL ROOM / OTHER (SPECIFY)

NUMBER OR UNITS IN BUILDING (IF APPLICABLE):

NUMBER OF TENANTS LIVING IN THE DWELLING: _____

C. PARTICULARS OF TENANT/LANDLORD COMMITTEE MEMBERS

NAME:	
TELEPHÖNE:	FAX:
DWELLING NUMBER:	
NAME:	
TELEPHŌNE:	FAX:
DWELLING NUMBER:	
NAME:	
TELEPHONE:	FAX:
DWELLING NUMBER:	

D. PARTICULARS OF RESPONDENT(S)

NAME:		
CAPACITY e.g. LANDLORD OR TE	Enant:	
ADDRESS (FLAT NAME, ROOM NO	O., STREET NAME):	
POSTAL ADDRESS:		
TELEPHONE (H):	(W)	
FAX:		

E. ADDITIONAL INFORMATION

NAME OF CARETAKER:	
TELEPHONE NO:	FAX:
NAME OF OWNER OF BUILDING:	
TELEPHONE:	FAX:
ADDRESS (FLAT NAME, ROOM NO., STREET NAME));
POSTAL ADDRESS:	
NAME OF MANAGING AGENT:	
TELEPHONE:	FAX:
NAME OF BOND HOLDER:	
TELEPHONE:	FAX:

F. PERSON/ORGANISATION THAT REFERRED THE COMPLAINT

IAME:
AX:
REF. NO.:

G. FINANCIAL STATUS OF BUILDING

TOTAL ELECTRICITY ARREARS:	R
TOTAL WATER ARREARS:	R
TOTAL RATES & TAXES OWED TO COUNCIL:	R
TOTAL OWED TO THE MANAGING AGENT:	R

H. BACKGROUND

HAS A COMPLAINT FOR THIS BUILDING BEEN SUBMITTED BEFORE?

YES	
NO	

I. LIST OF COMPLAINTS/DISPUTES

1.	
2.	
3.	
4.	
5	
Э.	
6.	

J. RENT

MONTHLY RENTAL AGREEMENT:	-
DOES THE RENTAL INCLUDE PAYMENT FOR WATER AND ELECTRICITY?	
NO BY WHICH DATE MUST THE RENT BE PAID EACH MONTH?	
WHERE AND HOW MUST THE RENT BE PAID?	

TO WHOM DOES THE RENT HAVE TO BE PAID?:	
DO YOU HAVE RECEIPTS FOR PAYMENT (rent, electricity, water)? *YES	
NO	
ADDITIONAL INFORMATION:	

*If yes, please supply.

K. PARTICULARS OF TENANT

NAME:		
MARITAL STATUS:		
NUMBER OF DEPENDANTS:		
ARE THE RENTED PREMISES RENT CONTROLLED?	YES	
	NO	
IF YES; WAS THE RENT FIXED BY THE FORMER RENT BO/ RENTAL HOUSING TRIBUNAL?	ARD OR 1	THE PRESEN
DATE ON WHICH THE RENT WAS FIXED:		
IS RENT PAID MONTHLY OR WEEKLY?		c
AMOUNT:		

L. LEASE AGREEMENT

/ELLING?
YES
NO
*YES
NO
ELLING?

M. EVICTION

WERE YOU GIVEN A WRITTEN NOTICE TO VACATE?	*YES NO	
WHEN WERE YOU TOLD TO VACATE?		
WHO TOLD YOU TO VACATE?		
SUMMONS OF EVICTION WHEN WAS THE SUMMONS SERVED ON YOU?		
WAS THE SUMMONS SERVED ON YOU PERSONALLY?	*YES	
	NÖ	

Ν.

ADDITIONAL	INFORMATION
------------	-------------

*If yes, please supply.

WAS A CHECKLIST CO	MPLETED WHEN YOU MOVED	D IN?	
		*YES	
		NO	
	ENANCE PROBLEMS FIRST A	RISE2	
WAS IT DISCUSSED WI	TH THE LANDLORD/AGENT?]
	*Y	ΈŞ	
		NO	
IF YES, WHO DID YOU	COMPLAIN TO?		
WHEN DID YOU COMPL	_AIN?		
WHAT WAS THE RESPO	UNSE WHEN YOU COMPLAIN	ED?	

*If yes, please supply.

N. MAINTENANCE

WHAT ARE THE EXACT MAINTENANCE PROBLEMS?	
WAS A CHECKLIST COMPLETED WHEN YOU MOVED IN?	[]
*YES	
NO	
WHEN DID THE MAINTENANCE PROBLEMS FIRST ARISE?	
WAS IT DISCUSSED WITH THE LANDLORD/AGENT? *YES	
NO	
IF YES, WHO DID YOU COMPLAIN TO?	
WHEN DID YOU COMPLAIN?	
WHAT WAS THE RESPONSE WHEN YOU COMPLAINED?	

*If yes, please supply.

O. DEPOSIT

WHAT AMOUNT WAS PAID AS DEPOSIT?		<u> </u>
WHEN WAS THE DEPOSIT PAID:		
DID YOU RECEIVE A RECEIPT?	*YES	
	NO	
WHEN DID YOU ASK FOR A REFUND?		
TO WHOM WAS THE REQUEST FOR A REFUND MADE?		
WHAT WAS THE REPLY?		
IF PART OF THE DEPOSIT WAS REFUNDED, HOW MUCH W	VAS REFU	JNDED?
HOW MUCH WAS THE TOTAL DEDUCTION?		
HAS THE LANDLORD/AGENT GIVEN ANY DETAILS FOR TH REFUNDING OF THE DEPOSIT?	E NON-	
	YES	
	NŌ	
If yes, provide the details:		
HAS THE LANDLORD GIVEN ANY DETAILS ABOUT THE DEI TOGETHER WITH RECEIPTS?	DUCTION *YES	
	NO	
If yes, provide the details:		

*If yes, please supply.

SIGNATURE OF COMPLAINANT		
DATE:		

FOR OFFICIAL USE

NAME OF MEMBER OF STAFF:
SIGNATURE:
DATE OF RECEIPT OF COMPLAINT:

SCHEDULE 2 SUBPOENA

			Complaint Reference No	
RENTAL HOU	SING TRIBUNAL OF		PROVINCE	
ESTABLISHED	UNDER SECTION 7	OF TH	IE RENTAL HOUSING ACT, 1999	
In the application of			, and	
	(Insert name of a	applicar	nt)	
In respect of the dwelling	ng known as			
(Insert full description	n of dwelling and descrip SUB	ption of	property on which the dwelling is located,	I
(State name, occupation BE INFORMED:	and place of business a	nd resic	dence of person being required to appear,)
That you are hereby re	equired to appear in pe	erson b	efore this Tribunal ator	l
			(insert venue)	
	of	_ at		
(insert date)	(insert month)		(insert time)	
And thereafter to rema	in in attendance until	excuse	ed by the Tribunal in regard to all ma	tters
within our knowledge re	elating to the matter pe	ending	before this Tribunal wherein the Appli	cant
is seeking				
AND FURTHER BE IN	FORMED:			
To bring and produce t	o this Tribunal the foll	owing:		
(insert accurately the doc	cuments, book or thing to	o be pro	oduced)	
(1)				
(2)				
(3)				
AND FURTHER BE IN	FORMED:			
That should you, on an	y account, neglect to	comply	y with any provisions of this Subpoena	a,
you may render yourse	elf liable to a fine and/o	or impr	isonment not exceeding two years.	
Signed and dated at	this		day of	

Tribunal Chairperson

SCHEDULE 3

Standard Call for Nominations for Persons to be Appointed as Appeal Adjudicators to the Panel of Adjudicators

CALL FOR NOMINATIONS FOR PERSONS TO BE APPOINTED AS APPEAL ADJUDICAOTRS ON THE PANEL OF APPEAL ADJUDICATORS <u>CLOSING DATE: (INSERT DATE)</u>

In terms of the Rental Housing Act, 50 of 1999, the MEC of Human Settlements for the ______Province hereby invites nominations for members of the public to be appointed to the panel of appeal adjudicators of the ______Province.

The period of office of an appeal adjudicator will be three years calculated from the date of appointment of such appeal adjudicator by the MEC of Human Settlements for the Province.

Nominees must be persons who possess legal qualifications and expertise in rental housing matters or consumer matters pertaining to rental housing matters.

Each nomination must be in writing and must contain the following information:

- (a) The name and address of the nominator, who must be a natural person and a person may nominate himself or herself;
- (b) The name, address and identity number of the nominee;
- (d) Motivation by the nominator for the appointment of the nominee to the panel of appeal adjudicators (not exceeding one page);
- (e) A short curriculum vitae of the nominee (not exceeding two pages);
- (f) Certified copies of qualifications and registration certificates indicating registration with a relevant professional body or voluntary association.

Please note that failure to comply with the above requirements may result in the disqualification of the nomination.

Nominations must be sent to:

The MEC for Human Settlements

Pronve of _____

P.O. Box _____

For	Attention [.]	
	/	

For E	nquiries:
Tel _	
* I,	(full names of nominee),
ID No	o (of nominee),
hereb	by declare that –
(a) (b)	I am available to serve on the panel of appeal adjudicators. there is no conflict of interest OR I have the following interests which may conflict with an appeal submitted to the MEC of Human Settlements:
(c)	I am not disqualified in terms of regulation 38 of the Rental Housing Tribunal Regulations, 2018 to serve as an appeal adjudicator and I authorise the MEC of Human Settlements to verify any record in relation to such disqualification or requirement.
(d)	I undertake to sign, commit to and uphold the Code of Conduct applicable to appeal adjudicators.

Signature of nominee
SCHEDULE 4

Code of Conduct for a Member of the Tribunal and an Appeal Adjudicator General conduct

- 1. A member of the Tribunal and an appeal adjudicator must at all times-
 - (a) act in accordance with the principles of accountability and transparency;
 - (b) disclose his or her personal interests in any decision to be made by the Tribunal or by him or her as appeal adjudicator in which he or she serves or has been requested to serve;
 - (c) abstain completely from direct or indirect participation as an advisor or decisionmaker in any matter in which he or she has a personal interest and leave any chamber in which such matter is under deliberation unless the personal interest has been made a matter of public record and the Tribunal or the MEC has given written approval and has expressly authorised his or her participation.
- 2. A member of the Tribunal and an appeal adjudicator may not-
 - (a) use the position or privileges of a member of the Tribunal or as an appeal adjudicator or confidential information obtained as a member of the Tribunal or as appeal adjudicator for personal gain or to improperly benefit another person; and
 - (b) participate in a decision concerning a matter in which that member or that members' spouse, partner or business associate, has a direct or indirect personal interest or private business interest.

Gifts

3. A member of the Tribunal and an appeal adjudicator may not receive or seek gifts, favours or any other offer under circumstances in which it might reasonably be inferred that the gifts, favours or offers are intended or expected to influence a person's objectivity as an advisor or decision-maker in the decision-making process.

Undue influence

- 4. A member of the Tribunal and an appeal adjudicator may not—
 - (a) use the power of any office to seek or obtain special advantage for private gain or to improperly benefit another person that is not in the public interest;
 - (b) use confidential information acquired in the course of his or her duties to further a personal interest;
 - (c) disclose confidential information acquired in the course of his or her duties unless required by law to do so or by circumstances to prevent substantial injury to third persons; and

(d) commit a deliberately wrongful act that reflects adversely on the Tribunal, the appeal adjudicator, MEC or provincial department by seeking business by stating or implying that he or she is prepared, willing or able to influence decisions of the Tribunal by improper means or that he or she is prepared to make a decision that serves the interest of that party.

DEPARTMENT OF WATER AND SANITATION

NO. 263

26 March 2021

AMENDMENT OF THE VAAL RIVER CATCHMENT MANAGEMENT AGENCY WATER MANAGEMENT AREA THROUGH EXTENDING THE BOUNDARY AND AREA OF OPERATION TO INCLUDE THE ORANGE WATER MANAGEMENT AREA IN TERMS OF SECTION 78(4) OF THE NATIONAL WATER ACT, 1998 (ACT NO. 36 OF 1998) AND AMENDMENT OF THE NAME OF THE VAAL RIVER CATCHMENT MANAGEMENT AGENCY TO THE VAAL-ORANGE CATCHMENT MANAGEMENT AGENCY. PUBLISHED FOR PUBLIC COMMENTS FOR A PERIOD OF SIXTY DAYS

I, L N Sisulu, MP, Minister of Human Settlements, Water and Sanitation, hereby, in terms of section 78(3) of the National Water Act, 1998 (Act No. 36 of 1998), declare that -

- a) the Vaal River Catchment Management Agency extends the boundary and area of operation to include the Orange Water Management Area;
- b) that the proposed Catchment Management Agency name is the Vaal-Orange Catchment Management Agency;
- c) the areas of operation of the proposed Vaal-Orange Catchment Management Agency include the previous Vaal and the Orange Water Management Areas as pronounced in the National Water Resource Strategy 2. Both of the Water Management Areas fall largely within the Gauteng, Free State and Northern Cape Provinces, and includes all properties in respect of which and person is entitled to use water by virtue of entitlements in terms of section 22(1) of the Act from-
 - (i) any other water resources situated outside the area described in paragraph (c)(i) above, which water resources and accompanying area, the Department of Water and Sanitation or the responsible authority may require the Vaal-Orange Catchment Management Agency to control,
- d) all initial and delegated functions will be performed by the Vaal-Orange Catchment Management Agency.
- e) water resource management charges will be billed by the Vaal-Orange Catchment Management Agency in accordance to section 57(2) of the National Water Act, 1998.
- f) affected staff will be transferred as a going concern to the Vaal-Orange Catchment Management Agency according to section 89(1)(2).

All interested persons are invited to send their comments in writing on the proposed extension of boundary and area of operation to: The Director-General

Attention: Ms T Baloi Department of Water and Sanitation Private Bag X313 PRETORIA 0001

Or by e-mail to: BaloiTG@dws.gov.za

L N SISULU, MP MINISTER OF HUMAN SETTLEMENTS, WATER AND SANITATION DATE: ゆろ\のみ\

CONTINUES ON PAGE 258 OF BOOK 3

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INDEPENDENT COMMUNICATIONS AUTHORITY OF SOUTH AFRICA

NO. 264

26 March 2021



350 Witch-Hazel Avenue, Eco Point Office Park Eco Park, Centurion. Private Bag X10, Highveld Park 0169

DISCUSSION DOCUMENT ON THE REVIEW OF THE INDEPENDENT BROADCASTING AUTHORITY (ADVERTISING, INFOMERCIALS AND PROGRAMME SPONSORSHIP) REGULATIONS, 1999

INVITATION FOR WRITTEN REPRESENTATIONS

In terms of section 4B of the Independent Communications Authority of South Africa Act, 2000 (Act No. 13 of 2000) ("ICASA Act"), as amended, the Authority hereby wishes to communicate its intention to conduct an Inquiry regarding the Review of the Independent Broadcasting Authority (Advertising, Infomercials and Programme Sponsorship) Regulations, 1999 ("the Regulations").

Interested persons are hereby invited to submit their written representations on the Discussion Document, which will also be made available on the Authority's website at http://www.icasa.org.za and in the Authority's Library at 350 Witch-Hazel Avenue, Eco Point Office Park, Eco Park, Centurion, (Ground Floor at Block B), between 09h00 and 16h00, Monday to Friday.

Written representations on the Discussion Document must be submitted to the Authority by no later than **07 June 2021** by post or electronically (in Microsoft Word or PDF) and marked specifically for attention: Mamedupe Kgatshe. Delivery address: 350 Witch-Hazel Avenue, Eco Point Office Park, Eco Park, Centurion, (Ground Floor at Block B). Where possible, written representations should also be e-mailed to <u>mkgatshe@icasa.org.za</u> and <u>rarc@icasa.org.za</u>. Enquiries should

be directed to **mkgatshe@icasa.org.za** and **gmalefo@icasa.org.za** or 012 568 3259; between 10h00 and 16h00, Monday to Friday.

Written representation(s) received by the Authority pursuant to this notice, will be made available on the Authority's website at <u>http://www.icasa.org.za</u> or can be sent via email upon request by any individual or can be collected from the Authority's library by appointment.

At the request for confidentiality by any person who submits written representations pursuant to this notice, the Authority may determine that such representations or any portion thereof is to be treated as confidential in terms of section 4D of the ICASA Act. The request for confidentiality must be accompanied by a written statement in line with section 4D (4) of the ICASA Act explaining why the specific information should be treated as confidential. Where the request for confidentiality is refused, the person who made the request will be granted an opportunity to withdraw such representations or portion(s) thereof.

Persons submitting written representations are further invited to indicate, as part of their submissions, whether they require an opportunity to make oral presentations to the Authority.

DR KEABETSWE MODIMOENG CHAIRPERSON DATE: 23/03/2021

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1. INTRODUCTION

- 1.1 The Independent Communications Authority of South Africa (hereinafter referred to as "ICASA" or "the Authority") in terms of section 4B of the Independent Communications Authority of South Africa Act, 2000 (Act No. 13 of 2000, as amended) ("ICASA Act") hereby publishes the Discussion Document on the Review of the Independent Broadcasting Authority (Advertising, Infomercials and Programme Sponsorship) Regulations, 1999.
- 1.2 The Discussion Document is arranged as follows: Section 2 outlines the background and legislative mandate. Section 3 presents information on recent trends on advertisement, infomercials and programme sponsorship revenues and section 4 outlines the regulation of Advertising in South Africa. Section 5 discusses an international perspective on the regulation of advertisements, infomercials and programme sponsorship and the concluding remarks are contained in section 6. Sections 7 encompasses questions posed by the Authority to the public and interested stakeholders.

2 LEGISLATIVE MANDATE AND BACKGROUND

- 2.1 The Authority is established pursuant to section 192 of the Constitution of the Republic of South Africa, 1996 which requires that national legislation must establish an independent authority to regulate broadcasting in the public interest, and to ensure fairness and a diversity of views broadly representing the South African society.
- 2.2 The Authority is further enjoined by the ICASA Act, the Electronic Communications Act, 2005 (Act No. 36 of 2005), as amended ("the ECA") and the Broadcasting Act, 1999 (Act No 4. of 1999), as amended ("the Broadcasting Act") to regulate broadcasting in the public interest.

- 2.3 In 1999, the Independent Broadcasting Authority published a Position Paper¹ and the Independent Broadcasting Authority (Advertising, Infomercials and Programme Sponsorship) Regulations, 1999 ("the Advertising Regulations").²
- 2.4 In 2009, the Authority started a process to review the Advertising Regulations in accordance with section 4B of the ICASA Act. As part of the public consultation process, the Authority published the Draft Regulations on Advertising, Infomercials and Programme Sponsorship for Broadcasting Service Licensees, 2009 ("**Draft Advertising Regulations, 2009**")³.
- 2.5 Stakeholders responded to the Draft Advertising Regulations, 2009 and highlighted that the Authority did not have a clear regulatory mandate over advertising. Thereafter, the Authority published the Findings Document regarding the draft Regulations on Advertising, Infomercials and Programme Sponsorship for Broadcasting Service Licensees, 2009⁴ and concluded that the Authority should seek legal certainty on its mandate to regulate the scheduling of advertisements, infomercials and programme sponsorships. Therefore, the Authority decided not to amend or repeal the Advertising Regulations until the ECA had been amended to enhance clarity and certainty.⁵
- 2.6 The Authority undertook a regulatory review of its broadcasting Regulations in 2013, including the Regulation of Advertising, Infomercials and Programme Sponsorship⁶. The regulatory review revealed that there was a need to strengthen the relationship between the Authority and the

¹ Position Paper on a definition of Advertising, the regulation of Infomercials and the Regulation of Programme Sponsorship, 31 March 1999, published on the Authority's website at <u>www.icasa.org.za</u>

² Published under Government Gazette 19922 of 01 April 1999

³ Published under General Notice 172 in Government Gazette 31903 of 13 February 2009

⁴ Published under General Notice 1659 in Government Gazette 32826 of 18 December 2009

⁵ Findings Document regarding the draft regulations on Advertising, Infomercial and Programme Sponsorship for Broadcasting Service Licensees, 2009, Paragraph 10.6.

⁶ Final Report on the Review of the Broadcasting Regulatory Framework towards a Digitally Converged Environment in South Africa, Government Gazette No. 36598 of 25 June 2013, pages 24 - 27.

Advertising Standards Authority of South Africa ("ASASA"⁷) and to clarify each entity's role and deal with perceptions of overlapping jurisdictions. These challenges had already been highlighted by stakeholders as early as 2009.

- 2.7 In 2014, the Electronic Communications Amendment Act, 2014 (Act No. 1 of 2014) ("**EC Amendment Act**")⁸ came into operation.⁹ The EC Amendment Act provided for the amendment of section 55 to ensure that the Authority could regulate scheduling of adverts, infomercials and programme sponsorships.¹⁰
- 2.8 Following the amendment, section 55(1) of the ECA now provides that all broadcasting services licensees must adhere to the Code as from time to time determined and administered by the ASASA and any advertising Regulations prescribed by the Authority in respect of scheduling of adverts, infomercials and programme sponsorship.
- 2.9 Furthermore, section 55(2) of the ECA provides that the Complaints and Compliance Committee ("CCC") must adjudicate complaints concerning alleged breaches of the Code by broadcasting service licensees who are not members of the ASASA, in accordance with section 17C of the ICASA Act, as well as complaints concerning alleged breaches of the advertising Regulations.
- 2.10 Section 55(3) provides that where a broadcasting licensee, irrespective of whether or not he or she is a member of the said ASASA, is found to have breached the Code or advertising Regulations, such broadcasting licensee must be dealt with in accordance with applicable provisions of sections 17A to 17H of the ICASA Act.

⁷ Section 1 of the ECA states that "Advertising Standards Authority of South Africa" means the entity which regulates the content of advertising, or any entity that replaces it but has the same functions. Currently the administration of the Code of Advertising Practice is done by the Advertising Regulatory Board ("ARB").

⁸ Published under General Notice 266 in Government Gazette 37536 of 7 April 2014.

⁹ Published under General Notice 406 in Government Gazette 37670 of 21 May 2014.

¹⁰ Clause 2.27 of the Memorandum on the Objects of the Electronic Communications Amendment Bill, 2012 published under Government Gazette No. 35525 of 18 July 2012.

2.11 Section 4(3)(j) of the ICASA Act empowers the Authority to make regulations on any matter consistent with the objects of the Act and underlying statutes or that are incidental or necessary for the performance of its functions.

Purpose of the inquiry

- 2.12 The purpose of this inquiry is to determine the effectiveness of the Advertising Regulations and whether there is a need for amendments. Given the rapid evolution of the broadcasting sector, Advertising Regulations are outdated and need to be reviewed as they have been in force for a period of over eighteen (18) years. The Authority is therefore undertaking an inquiry in terms of section 4B of the ICASA Act on the Advertising Regulations.
- 2.13 In reviewing these Regulations, the Authority also seeks to ensure;
 - the protection of viewers from excessive advertising;
 - that advertising, infomercial and programme sponsorship is clearly distinguishable from normal programming;
 - that broadcasters adhere to the limits on advertising and infomercials; and
 - that broadcasters maintain editorial independence and control over programming.

3 RECENT TRENDS ON ADVERTISEMENTS, INFOMERCIALS AND PROGRAMME SPONSORSHIP REVENUES

3.1 The purpose of this section is to identify and understand trends on advertisements, infomercials and programme sponsorships revenue for TV and radio (for commercial, community and public services), to improve the Advertising Regulations where necessary.¹¹

¹¹ State of the ICT Sector Report in South Africa-2019

https://www.icasa.org.za/uploads/files/State-of-the-ICT-Sector-Report-March-2020.pdf

- 3.2 Advertisement revenue decreased by 8.17% in 2018 and decreased by 11.39% in 2019. However, for a period of five (5) years (which is from 2015 to 2019), advertising revenue increased by 4.93% overall.¹²
- 3.3 Programme sponsorship revenue as a proportion of total broadcasting revenue was 2% or below over the four (4) year period ending in 2018.¹³
- 3.4 Revenue from infomercials increased by 33.88% in 2018 and decreased by 21.77% in 2019.¹⁴



Figure 1: Revenue from infomercials

Source: ICASA Broadcasting Questionnaires 2015-2019

- 3.5 For a period of 5 years revenue from infomercials increased by 71.53%.¹⁵
- 3.6 Figure 2 below presents the revenue trends from advertisements, infomercials and programme sponsorships as a proportion of total broadcasting revenue in the past 4 years from 2015 to 2018.¹⁶

¹² State of the ICT Sector Report in South Africa-2019

¹³ State of the ICT Sector Report in South Africa-2019

¹⁴ State of the ICT Sector Report in South Africa-2019

¹⁵ State of the ICT Sector Report in South Africa-2019

¹⁶ State of the ICT Sector Report in South Africa -2019

https://www.icasa.org.za/uploads/files/State-of-the-ICT-Sector-Report-March-2020.pdf



Figure 2:ProportionofBroadcastingRevenuefromAdvertisements, Infomercials and Programme Sponsorships

Source: ICASA Broadcasting Questionnaire 2015-2019

4. **REGULATION OF ADVERTISING IN SOUTH AFRICA**

- 4.1 Advertising is often considered essential to the success of broadcasters. The ICT industry is highly competitive, thus various companies utilize both audio and/or audio-visual broadcasting to reach customers through advertising, thus increasing their revenue through advertising. Although Advertising is intended to be interruptive, that is, it must capture the viewers' attention, too many advertisements can be a nuisance too. Therefore, regulating Advertising is very important to protect consumers.
- 4.2 The Authority has developed the mechanisms explored below, in its endeavour to regulate advertising, infomercials and programme sponsorship in the public interest.
- 4.3 The Authority would like to solicit input on the mechanisms listed below from the public and interested stakeholders.

Advertising

- 4.4 The Authority's regulation of Advertisement seeks to provide consumers with certainty on what should be easily identifiable as an advertisement. The Regulation also intends to assist broadcasters with classifying advertisement from other programming. The Authority proposes a uniform definition of Advertising that is to be applied by broadcasters. The definition of advertising should be:
 - Unambiguous;
 - Easily implementable and enforceable;
 - Measurable;
 - Fair to stakeholders; and
 - Be applied uniformly.¹⁷
- 4.5 Advertising is defined in the Advertising Regulations to mean any material broadcast, in visual and/or audio form for which the broadcaster receives a consideration, in cash or otherwise, and which promotes the interest of any person, product or service, provided that:
 - (a) spot commercial, which is a public service announcement for which the broadcaster receives a consideration, any material that would constitute infomercial but for the fact that is of two minutes' duration or less, that part of sponsorship package which is constituted by spot commercials, and commercial features shall be regarded as being advertisement; but
 - (b) public services announcement in respect of which the broadcaster does not receive any consideration, supply agreements, infomercials exceeding two minutes in duration, branded filler material which is of the public services nature, sponsorship elements which form part of inprogramme material presenters' credit and (in relation to competition and self-promotions), programme competition, branded promotional

¹⁷ Position Paper on a definition of Advertising, the regulation of Infomercials and the Regulation of Programme Sponsorship, published 31 March 1999, page 8

spots and self-promotion promos shall not be regarded as advertisements.¹⁸

- 4.6 The Authority does not regulate advertising content but has a regulatory mandate to prescribe the duration and frequency of advertisements, infomercials and programme sponsorships. This mandate also covers issues of:
 - (a) ensuring compliance by broadcasters;
 - (b) regulating the amount of advertising that may be transmitted; and
 - (c) distinguishing material which is considered advertisement from that which is not, to provide clarity to broadcasting service licensees such as distinction made in terms of regulation 3(3) of the Regulations.
- 4.7 To be specific, regulation 3(3) of the Advertising Regulations states that any broadcaster who transmits a programme competition, a branded promotional spot, branded filler material, a self-promotion promo or a sponsorship element in the form of the air depiction of, or referral to any brand, product or name, shall ensure that the primary purpose of the broadcast of such material is to promote the broadcaster or the programme concerned, rather than the commercial interest of the person, product or service referred to in the course of such transmission. Regulation 3(4) of the Advertising Regulations further states that transmission elements such as continuity announcement and station identification, in the form of on-screen logos, signature tunes and the like do not constitute an advertisement.¹⁹
- 4.8 Furthermore, the Position Paper proposes that the definition of advertising should not be static because broadcasting is a changing and dynamic industry and broadcasters are further encouraged to conduct research on the amount

¹⁸ The Regulation relating to the definition of Advertising and the Regulation of Infomercials and Programme Sponsorship in respect of broadcasting services, Government Gazette 19922 of 01 April 1999.

¹⁹ The Regulation relating to the definition of Advertising and the Regulation of Infomercials and Programme Sponsorship in respect of broadcasting services, government gazette 19922 of 01 April 1999, page 6.

of advertising tolerance and perception, and are requested to update the Authority on such research. 20

Infomercials

- 4.9 In drafting the 1999 Advertising Regulations, the Authority was concerned that some broadcasters can misconstrue the scheduling of infomercials in programming²¹. The Authority is still concerned that infomercials and programming are often confused and therefore it is important to make sure that infomercials are clearly identified and do not form part of programming.
- 4.10 Regulation 1.10 of the Advertising Regulations define infomercial as "material of more than two minutes' duration, broadcast in visual and/or audio form, for which a broadcaster receives a consideration, in cash or otherwise, which is usually (but not necessarily) presented in a programme format, which promotes the interest of any person, product or service, which entails a direct offer of a product or service to a member or members of the public in return for payment, and which usually (but not necessarily) contains a demonstration of the use of the product or service concerned, and includes material known as tele-shopping, home shopping, direct marketing and direct sales"²².
- 4.11 The Regulations provide that no broadcaster may transmit an infomercial during prime time or during the transmission of, or breaks during the transmission of, any children's programming. The Regulations further state that every broadcaster should ensure that all infomercials transmitted by it are presented and labelled in a manner that will be clear to the audience that such infomercials do not constitute programme material. Broadcasters are not allowed to transmit infomercials for more than two hours during the performance period²³ in any one day. Moreover, the Regulations do not apply

²⁰ Position Paper on a definition of Advertising, the regulation of Infomercials and the Regulation of Programme Sponsorship, published 31 March 1999, page 11, published on the Authority's website at <u>www.icasa.org.za</u>

²¹ The 1999 Independent Broadcasting Authority Position Paper, published 31 March 1999, page 12

²² The Regulation relating to the definition of Advertising and the Regulation of Infomercials and Programme Sponsorship in respect of broadcasting services, government gazette 19922 of 01 April 1999

²³ The Regulation relating to the definition of Advertising and the Regulation of Infomercials and Programme Sponsorship in respect of broadcasting services, government gazette 19922 of 01 April 1999, page 7.

to any dedicated infomercial channels which may obtain a broadcasting license from the Authority²⁴.

4.12 The Authority encourages broadcasters to conduct research on the amount and scheduling of infomercials.²⁵ Therefore, the information from broadcasters will assist this inquiry, if available.

Programme Sponsorship

- 4.13 The Authority, during the 1999 Advertising Regulation making process, noted that the over-riding concern with programme sponsorship is to preserve the editorial integrity of sponsored programme.²⁶
- 4.14 With regards to sponsorship of children's programming the Authority alluded to the vulnerability of children in distinguishing between programme content and sponsorship. Broadcasters should ensure that sponsorship during children's programming is suitable for children.²⁷
- 4.15 The Advertising Regulations define programme sponsorship as direct or indirect financing, whether partial or fully, of the production or transmission of broadcast programme material by an advertiser or person with a view of promoting its own or another person's name, trade mark, image, activities or product. Sponsorship element is defined as marketing material that forms part of, or is superimposed on, broadcast programme material and includes but is not necessarily limited to on-screen corner logos, opening and closing billboards, stings, squeezebacks, the on-air depiction of or referral to, any brand or name, ribbons crawls, naming rights and product placements.²⁸

Performance period means the period of 126 hours in one week measured between the hours of 05h00 and 23h00 each day

²⁴ Ibid, page 7.

²⁵ Position Paper on a definition of Advertising, the regulation of Infomercials and the Regulation of Programme Sponsorship, published 31 March 1999, page 13, published on the Authority's website at <u>www.icasa.org.za</u>

²⁶ Ibid, page 14

²⁷ Ibid, page 15

²⁸ The Regulation relating to the definition of Advertising and the Regulation of Infomercials and Programme Sponsorship in respect of broadcasting services, government gazette 19922 of 01 April 1999, page 4.

- 4.16 Regulation 5.1 of the Advertising Regulations states that every broadcaster who derives benefits from programme sponsorship shall ensure that in relation to the relevant sponsored programme, editorial control remains with the broadcaster. The Regulations provide that for every programme sponsorship obtained or accepted by a broadcaster, the broadcaster must enter into a written sponsorship contract with the sponsor which should provide that the sponsor shall not be entitled in any way to influence the content or scheduling of the sponsored programme. Broadcasters are required to submit to the Authority copies of sponsorship contracts concluded.²⁹
- 4.17 Regulation 5.3 of the Advertising Regulations requires that broadcasters who provide television broadcasting services shall not obtain or accept any programme sponsorships from any person in respect to any news or current affairs programme. However, Regulation 5.4 of the Advertising Regulations provides that broadcasters are allowed to obtain or accept programme sponsorship in respect of weather forecast or sports results bulletin that constitutes part of a news programme broadcast by that broadcaster. The Regulations are silent on obtaining programme sponsorship for sound broadcasting service licensees on news.³⁰
- 4.18 The 1999 Position Paper³¹ noted that sponsorship of radio news is an established tradition in South Africa and radio broadcasters receive significant revenue from such. However, the Authority encouraged radio broadcasters to phase out such sponsorship.
- 4.19 Regulation 5.9 provides that a broadcaster should, before and after the transmission of a sponsored programme, state clearly the nature of sponsor's association with the relevant sponsored programme. Preference should be given to descriptions such as "*sponsored by*" or "*in association*

²⁹ Ibid, page 7.

³⁰ Ibid, page 8.

³¹ Position Paper on a Definition of Advertising, the Regulation of Infomercials and the Regulation of Programme Sponsorship in respect of Broadcasting services, published 31 March 1999, pages 13-14, published on the Authority's website at <u>www.icasa.org.za</u>

with", as opposed to descriptions such as "*brought to you by"* or "*with compliments of"*.³²

- 4.20 Regarding product placement, the Authority decided that whilst it does not approve of product placement, complete prohibition may have unduly negative effect on the broadcasters' revenue and potentially on local content production. Broadcasters should consider phasing out product placement especially in children's' programming.³³ The Authority in this process is reviewing whether product placement should be allowed, and if allowed, the extent to which it should be allowed.
- 4.21 Regulation 1.15 of the Advertising Regulations defines Product Placement as the "depiction of, or a reference to, a product or service in material (other than an advertisement) broadcast in visual and/or audio form, in respect of which the broadcaster and/or the producer of the material concerned receives payment or other valuable consideration, and which promotes the interests of any person, product or service". Product Placement is not allowed during news and current affairs programmes.³⁴

5. INTERNATIONAL PERSPECTIVE

- 5.1 In other countries, advertising is regulated by legislation, and in some cases by self-regulatory organizations within the advertising industry. The Authority has looked at the different approaches from other countries in the regulation of advertising to assess the possible areas of improvement for South Africa in terms of scheduling and duration of advertisements, infomercials and programme sponsorship.
- 5.2 In conducting the benchmarking exercise, the Authority studied Kenya, Tanzania and Namibia as these countries were found by the Authority to

³² The Regulation relating to the definition of Advertising and the Regulation of Infomercials and Programme Sponsorship in respect of broadcasting services, government gazette 19922 of 01 April 1999, page 9.

³³ Position Paper on a definition of Advertising, the regulation of Infomercials and the Regulation of Programme Sponsorship, published 31 March 1999, page 16, published on the Authority's website at <u>www.icasa.org.za</u>

³⁴ The Regulation relating to the definition of Advertising and the Regulation of Infomercials and Programme Sponsorship in respect of broadcasting services, government gazette 19922 of 01 April 1999, page 8

have more information on advertising, infomercials and programme sponsorship regulation.

- 5.3 In addition, three developed countries were also assessed, namely the United Kingdom, Australia and Canada. The rationale behind benchmarking with these countries is that they have advertising, infomercials and programme sponsorship regulations which provide more details on the scheduling of advertisements, infomercials and programme sponsorship.
- 5.4 The following paragraphs discuss each of these countries in relation to legislation and the regulations.

5.5 <u>Kenya</u>

- 5.5.1 In Kenya, advertising, infomercials and programme sponsorship is regulated by two bodies namely Communications Authority of Kenya (CAK) and the Advertising Standards Body for Kenya (ASBK). The CAK regulates Telecommunications, Radio Communication and Postal Services, and focus on the scheduling of advertisements, infomercials and programme sponsorship.³⁵ The ASBK is responsible for the content of advertisements. This is an industry body established to facilitate a process which culminates in the adoption of the Advertising Code of Practice and Marketing (Code).³⁶
- 5.5.2 It is worth noting that there is no law that establishes the Code, but the Regulator adopts the Code in terms of section (13)(1) of the KICA³⁷, which is administered by ASBK.³⁸
- 5.5.3 The scheduling of Advertisements is regulated through the Kenya Information and Communications (Broadcasting) Regulations of 2009 ("Kenya Regulations").

³⁵ https://ca.go.ke/

³⁶ Advertising Standard Body of Kenya (The Code of Advertising Practice and Direct marketing, April 2003

³⁷ Kenya Information and Communications Act, 1998, page 169

³⁸ The Code of Advertising Practice and Direct Marketing, April 2003. The Advertising Standards Body is an independent body established by the marketing and advertising industry to ensure self-regulation.

Advertising

- 5.5.4 The Kenya Regulations define advertising as the broadcast of any item in return for payment or other valuable consideration to a broadcaster. The Kenya Regulations further state that a licensee should ensure the following:
 - (a) any advertising breaks are clearly distinguishable from broadcast programmes; and
 - (b) its presenters, when reading advertisements, make a clear distinction between the programming material and the advertisements they deliver.

Infomercials

- 5.5.5 According to regulation 31 of Kenya Regulations, an infomercial refers to any advertising broadcast in visual or audio form, lasting for more than two minutes which may contain demonstrations of the use of the product or service advertised, and includes direct offers to the public in return for payment, and results in the broadcaster receiving payment in monetary terms or otherwise³⁹.
- 5.5.6 Regulation 31 further states that a licensee should not broadcast infomercials:
 - (a) for a period exceeding three and a half hours of the performance period in any day;
 - (b) during prime time; or
 - (c) during any break in the transmission of a children's programme⁴⁰.
- 5.5.7 The Kenya Regulations further provide that licensees should ensure, through visual or audio form, that the broadcast of any infomercial is distinguishable from any broadcast programme material.

³⁹ Kenya Information and Communications (Broadcasting) Regulations, 2009.

⁴⁰ Kenya Information and Communications (Broadcasting) Regulations, 2009, page 149.

5.6 Tanzania

5.6.1 Advertising in Tanzania is regulated by the Tanzania Communications Regulatory Authority ("TCRA"). The TCRA is established in terms of the Tanzania Communications Regulatory Authority Act, 2003 (Act No. 12 of 2003). Section 109 of the Electronic and Postal Communications Act of 2010 provides the mandate to regulate Advertising and Sponsorship. The Electronic and Postal Communications (Radio and Television Broadcasting Content) Regulations, 2018 ("Tanzania Regulations)⁴¹ apply in relation to broadcasting content services on any platform in Mainland Tanzania.

Advertising

- 5.6.2 The Tanzania Regulations define advertising similarly to Kenya as the broadcasting of any material in return for payment or other valuable consideration to a broadcaster. The purpose of advertisements should be to:
 - (a) sell to audiences any product or service;
 - (b) convince audiences of a belief or course of action; or
 - (c) promote a product, service, belief, course of action, person or organization⁴²
- 5.6.3 Regulation 20(2) of the Tanzania Regulations specifies that a licensee should observe the following, *inter alia*⁴³:
 - (a) ensure that any advertising breaks are clearly distinguishable from broadcast programmes;

⁴¹ Tanzania Communications Regulatory Authority Act of 2003 and the Electronic and Postal Communications (Radio and Television Broadcasting Content) Regulations, gazette 134 of 2018.

⁴² The Electronic and Postal Communications (Radio and Television Broadcasting Content) Regulations, 2018, page 3.

⁴³ The Electronic and Postal Communications (Radio and Television Broadcasting Content) Regulations, 2018, page 18.

- (b) ensure that its presenters, when reading advertisements, make a clear distinction between programming material and the advertisements they deliver;
- (c) ensure that there is a clear separation of advertising content and programme, and shall –
 - broadcast a maximum of five minutes of advertising material in any thirty minutes of broadcast;
 - (ii) insert a maximum of two advertising breaks in a thirty minutes programme;
 - (iii) ensure that an advertisement does not exceed a duration of sixty seconds; and
 - (iv) abide by the provisions of the Code of Ethics for Advertising and Sponsorship for the Broadcast Media issued by the TCRA.
- 5.6.4 Commercial service broadcasting licensees in Tanzania are funded largely by advertising which is also a source of profit.

Infomercials

- 5.6.5 Similar to Kenya, Tanzania defines infomercials as any advertising broadcast in visual or audio form, lasting for more than two minutes, which may contain demonstrations of the use of the product or service advertised, entailing direct offers to the public in return for payment, and which results in the broadcaster receiving payment in monetary terms or otherwise⁴⁴.
- 5.6.6 Regulation 21(1) of the Tanzania Regulations specifies that an infomercial should not be broadcast:
 - (a) for a period exceeding three and half hours of the performance period in any day; and

⁴⁴The Electronic and Postal Communications (Radio and Television Broadcasting Content) Regulations 2018 gazette 134, page 5.

- (b) during prime-time or during any break in the transmission of a children's programme⁴⁵.
- 5.6.7 Regulation 21(1) further states that the licensee should ensure that the broadcast of any infomercial is distinguishable from any programme material broadcast.
- 5.6.8 It is worth noting that the aforementioned obligations do not apply to broadcasting stations that exclusively broadcast infomercials⁴⁶.

Sponsorship

- 5.6.9 Tanzania defines a sponsored programme as a programme that has all or part of its cost paid by a sponsor⁴⁷.
- 5.6.10 The Tanzania Regulations further provide that sponsorship of an information programme must not compromise the accuracy and impartiality of the programme content.⁴⁸

5.7 <u>Namibia</u>

- 5.7.1 The Communications Regulatory Authority of Namibia (CRAN) is an independent body that was established in terms of the Communications Act No. 8 of 2009. The CRAN was found in 2011 as a replacement to the Namibia Communications Commission. The CRAN regulates the telecommunications services and networks that entail broadcasting, postal and radio spectrum.
- 5.7.2 In Namibia advertising is regulated by the CRAN in terms of the Communications Act No.8 of 2009.

⁴⁵ The Electronic and Postal Communications (Radio and Television Broadcasting Content) Regulations, 2018, gazette 134, page 17.

⁴⁶ The Electronic and Postal Communications (Radio and Television Broadcasting Content) Regulations, 2018, gazette 134, page 17.

⁴⁷ The Electronic and Postal Communications (Radio and Television Broadcasting Content) Regulations, 2018, gazette 134, page 7.

⁴⁸ Regulation 15(2)(g).

Advertising

- 5.7.3 CRAN prescribes the amount and nature of advertisements that may be broadcast and prohibits the broadcast of advertisements that are degrading or offensive⁴⁹. CRAN defines an advertisement as "any visual or audio communication, representation, reference or notification of any kind, which is intended to promote the sale, leasing or use of any brand, product, belief, goods or services, or which appeals for or promotes the support of any cause and includes promotional content of display material, menus, labels, and packaging but excludes editorial material unless it is editorial material for which consideration has been given or received"⁵⁰.
- 5.7.4 Regulation 16 (1) of the CRAN Broadcasting Code provides that an advertisement broadcast by a broadcasting licensee must be presented in such a manner that a reasonable audience will be able to identify such advertisement at the time of the broadcast, as advertising material⁵¹.

5.8 United Kingdom

- 5.8.1 The United Kingdom's Office of Communications ("OFCOM") regulates advertising in terms of section 9 of the OFCOM Broadcasting Code of 2011 ("the OFCOM Code"). The rules in this section were drafted to ensure that editorial content remains distinct from advertising. They require broadcasters to retain editorial control over the programmes they transmit.
- 5.8.2 The rules serve to protect viewers from both excessive commercial references in programming and from surreptitious advertising by:
 - (a) limiting the extent to which references to products, services and trademarks can feature in programming;

⁴⁹ Communications Act, 2009, Section 89(2)(i).

⁵⁰ CRAN Advertising Code of Broadcasting for Broadcasting Licensees, gazette 6750 ,2018s, page 3.

⁵¹ CRAN Advertising Code.

- (b) requiring that viewers are made aware of a reference to a product, service or trademark feature in programming as a result of a commercial arrangement between the broadcaster or producer and a third-party funder; and
- (c) helping to ensure that broadcasters do not exceed the limits placed on the amount of advertising they can transmit⁵².
- 5.8.3 The purpose of advertising rules as set out in section 9 of the OFCOM Code is to:
 - (a) "ensure that broadcasters maintain editorial independence and control over programming (editorial independence);
 - (b) ensure that there is distinction between editorial content and advertising (distinction);
 - (c) protect audiences from surreptitious advertising (transparency);
 - (d) ensure that audiences are protected from the risk of financial harm (consumer protection); and
 - (e) ensure that unsuitable sponsorship is prevented (unsuitable sponsorship)"⁵³.
- 5.8.4 Surreptitious advertising is defined as "an advertising that involves a reference to a product, service or trade mark within a programme, where such a reference is intended by the broadcaster to serve as advertising and this is not made clear to the audience. Such advertising is likely to be considered intentional if it occurs in return for payment or other valuable consideration to the broadcaster or producer"⁵⁴.
- 5.8.5 Section 9.4 provides that products, services and trademarks must not be promoted in programming.⁵⁵

55 Ibid

⁵² OFCOM Broadcasting Code of 2011.

⁵³ The OFCOM Broadcasting Code (2011), p 46.

⁵⁴ Section 9.3 of the OFCOM Broadcasting Code (2011).

- 5.8.6 In terms of section 9.5 of the OFCOM Code, no undue prominence may be given in programming to a product, service or trademark. The section further states that undue prominence may result from:
 - (a) "the presence of, or reference to, a product, service or trade mark in programming where there is no editorial justification; or
 - (b) the manner in which a product, service or trade mark appears or is referred to in programming"⁵⁶.

Advertisements and Infomercials

- 5.8.7 OFCOM defines advertising as "any form of announcement broadcast whether in return for payment or for similar consideration or broadcast for self-promotional purposes by a public or private undertaking or natural person in connection with a trade, business, craft or profession to promote the supply of goods or services, including immovable property rights and obligations, in return for payment"⁵⁷.
- 5.8.8 The Code on the Scheduling of Television Advertising (April 2016) ("Scheduling Code") defines teleshopping or infomercial "*as direct offers broadcast to the public with a view to the supply of goods or services, including immovable property, rights and obligations, in return for payment, with a minimum uninterrupted duration of 15 minutes*⁵⁸.
- 5.8.9 Time slots dedicated to television advertising and teleshopping on a nonpublic service channel must not exceed 12 minutes per hour, per day, of which no more than 9 minutes may be television advertising. On public service channels, time slots dedicated to television advertising and teleshopping must not exceed an average of 7 minutes per hour, in a day or 8 minutes per hour between 18:00 and 23:00⁵⁹.

59 Ibid

⁵⁶ Section 9.5 of the OFCOM Broadcasting Code (2011).

⁵⁷ For the purpose of this Code, this includes S4C, which is authorized by the Broadcasting Act 1990, Page 1

⁵⁸ Code on the Scheduling of Television Advertising (1 April 2016)

- 5.8.10 In the event that a broadcaster transmits less advertising than it scheduled, OFCOM may grant the broadcaster a limited exemption⁶⁰.
- 5.8.11 Section 5 of the Scheduling Code provides that the advertising breaks during programmes on public service channels may not exceed 3 minutes and 50 seconds, of which advertising and teleshopping slots may not exceed 3 minutes and 30 seconds. This excludes advertising breaks in Film.⁶¹
- 5.8.12 In the event a television advertisement or teleshopping is inserted during programmes, television broadcasters must ensure that the integrity of the programme is not prejudiced. It is worth noting that breaks are not permitted within schools' programmes.⁶²
- 5.8.13 Children's programmes with a scheduled duration of less than 30 minutes may not be interrupted by advertising. However, the transmission of children's programmes with a scheduled duration of longer than 30 minutes may be interrupted by advertising or teleshopping, once for each scheduled period of at least 30 minutes.
- 5.8.14 The following programmes may not include advertising or teleshopping breaks during the service:
 - (a) religious service;
 - (b) a news or current affairs programme of less than half an hour scheduled duration;
 - (c) a documentary of less than half an hour scheduled duration;
 - (d) a programme designed and broadcast for reception in schools; and
 - (e) broadcasts of a formal Royal ceremony.

⁶⁰ Ibid

⁶¹ Ibid

⁶² Ibid

Product placement

- 5.8.15 The Communications Act⁶³ provides for definitions of product placement and prop placement. Product placement means "the inclusion in a programme of, or of a reference to a product, service or trade mark where the inclusion is for a commercial purpose and is in return for the making of any payment, or the giving of other valuable consideration, to any relevant provider or any person connected with a relevant provider and is not prop placement"⁶⁴.
- 5.8.16 The OFCOM Code defines prop placement as "the inclusion in a programme of, or of a reference to a product, service or trade mark where the provision of the product, service or trade mark has no significant value, and no relevant provider, or person connected with a relevant provider has received any payment or other valuable consideration in relation to its inclusion in, or the reference to it in the programme, disregarding the costs saved by including the product, service or trade mark, or a reference to it in the programme⁶⁵.
- 5.8.17 Section 9.6 of the OFCOM Code states that product placement is prohibited except in programme genres such as films, series made for television (or other audio-visual media services), sports programmes and light entertainment programmes⁶⁶.
- 5.8.18 In terms of section 9.7 of the OFCOM Code, news programmes or children's programmes must not contain product placements⁶⁷. Section 9.8 states that product placement must not influence the content and scheduling of a programme in a way that affects the responsibility and editorial independence of the broadcaster⁶⁸.

⁶³ The Communications Act 2003, as amended.

⁶⁴ Schedule 11A (1)(1) of the Communications Act 2003, as amended and section 9.5 of the OFCOM Broadcasting Code (2011).

⁶⁵ Schedule 11A (1)(2) of the Communications Act 2003, as amended and section 9.5 of the OFCOM Broadcasting Code (2011).

⁶⁶ Ibid.

⁶⁷ Ibid.

⁶⁸ Ibid.

- 5.8.19 References to placed products, services and trademarks must not be promotional or unduly prominent⁶⁹. Product placement is not permitted in the religious programmes, consumer advice programmes and current affairs programmes⁷⁰.
- 5.8.20 Sections 9.11 and 9.13 prohibit the product placement of cigarettes or other tobacco products, placement by or on behalf of an undertaking whose principal activity is the manufacture or sale of cigarettes or other tobacco products and placement of prescription-only medicines⁷¹.
- 5.8.21 In addition, the OFCOM Code prohibits product placement of alcoholic drinks, foods or drinks high in fat, salt or sugar, gambling, infant formula (baby milk), including follow-on formula, all medicinal products, electronic or smokeless cigarettes, cigarette lighters, cigarette papers, or pipes intended for smoking, or any product, service or trade mark that is not allowed to be advertised on television⁷².
- 5.8.22 Product placement must be signalled clearly, by means of a universal neutral logo, as follows:
 - (a) at the beginning of the programme in which the placement appears;
 - (b) when the programme recommences after commercial breaks; and
 - (c) at the end of the programme⁷³.
- 5.8.23 In terms of section 9.5 of the OFCOM Code, no undue prominence may be given in programming to a product, service or trademark. The section further states that undue prominence may result from:
 - (a) "the presence of, or reference to, a product, service or trade mark in programming where there is no editorial justification; or

⁶⁹ Ibid.

⁷⁰ Ibid.

⁷¹ Ibid.

⁷² OFCOM Broadcasting Code (2011).

⁷³ Ibid.

(b) the manner in which a product, service or trade mark appears or is referred to in programming"⁷⁴.

Sponsorship

- 5.8.24 Programme-related material may be sponsored, and the sponsor may be credited when details of how to obtain the material are given⁷⁵. News and current affairs programmes must not be sponsored⁷⁶. Section 9.16 states that programming (including a channel) may not be sponsored by any sponsor that is prohibited from advertising on television⁷⁷. Sponsorship must comply with both the content and scheduling rules that apply to television advertising⁷⁸. A sponsor must not influence the content and/or scheduling of a channel or programming in such a way as to impair the responsibility and editorial independence of the broadcaster and must not be unduly prominent⁷⁹.
- 5.8.25 In terms of section 9.19, sponsorship must be clearly identified by means of sponsorship credits. Sponsorship credits must be broadcast at the beginning and/or during and/or end of the programme⁸⁰ and must be distinct from editorial content and advertising⁸¹. These must make clear the identity of the sponsor by reference to its name or trade mark and the association between the sponsor and the sponsored content⁸².
- 5.8.26 Sponsorship credits must not encourage the purchase or rental of the products or services of the sponsor or a third party. The focus of the credit must be the sponsorship arrangement itself. Such credits may include explicit reference to the sponsor's products, services or trademarks for the

⁷⁴ Section 9.5 of the OFCOM Broadcasting Code (2011).

⁷⁵ Ibid.

⁷⁶ Ibid.

⁷⁷ Ibid.

⁷⁸ Ibid.

⁷⁹ Ibid.

⁸⁰ Section 9.20 of the OFCOM Broadcasting Code (2011).

⁸¹ Section 9.21 and 9.22 of the OFCOM Broadcasting Code (2011).

⁸² Section 9.19 of the OFCOM Broadcasting Code (2011).

sole purpose of helping to identify the sponsor and/or the sponsorship arrangement⁸³.

- 5.8.27 Such credits must consist of a brief, neutral visual or verbal statement identifying the sponsorship arrangement. This can be accompanied by only a graphic of the name, logo, or any other distinctive symbol of the sponsor. The content of the graphic must be static and must contain no advertising messages, calls to action or any other information about the sponsor, its products, services or trademarks⁸⁴.
- 5.8.28 Sections 9.26 to 9.29 provides for premium rate telephony services (PRS). Section 9.27 states that PRS will normally be regarded as products or services, and must therefore not appear in programmes, except where:
 - (a) they enable viewers to participate directly in or otherwise contribute directly to the editorial content of the programme; or
 - (b) they fall within the meaning of programme-related material⁸⁵.
- 5.8.29 Section 9.28 provides that where a PRS is featured in a programme, the primary purpose of the programme must continue to be clearly editorial and PRS must be clearly subsidiary to that primary purpose.

Programme related material

5.8.30 Programme-related material consists of products or services that are both directly derived from a programme and specifically intended to allow viewers to benefit fully from, or to interact with, that programme. The OFCOM Code states that broadcasters may refer to the availability of programme-related material without such references counting towards the amount of advertising they are permitted to transmit⁸⁶. Programme-related

86 Ibid.

⁸³ Section 9.22 of the OFCOM Broadcasting Code (2011).

⁸⁴ Section 9.22 of the OFCOM Broadcasting Code (2011).

⁸⁵ OFCOM Broadcasting Code (2011).

material may be promoted only during or around the programme from which it is directly derived and only where it is editorially justified⁸⁷.

- 5.8.31 Further, the OFCOM Code states that charity appeals are allowed in programming only if they are broadcast free of charge. Whilst charities differ from purely commercial entities, there is still a potential risk that the audience may suffer financial harm as a result of such appeals. Many charities operate in competition with one another and the rules therefore aim to ensure that charity appeals benefit a range of charities. Where appropriate, broadcasters must pay attention to section 5 of the OFCOM Code on due impartiality⁸⁸.
- 5.8.32 Broadcasters may broadcast appeals for donations to make editorial content or fund their service⁸⁹. Section 9.38 states that broadcasters must not offer any additional benefits or other incentives to donors⁹⁰. Appeals for funds for programming or services must not be given undue prominence in relation to the overall output of the service⁹¹.
- 5.8.33 The OFCOM Code defines a financial promotion as an invitation or inducement to engage in investment activity (in accordance with section 21(1) of the Financial Services and Markets Act 2000). Further, the Code defines an investment recommendation as the one that occurs when someone directly recommends a particular investment decision, for example, buying or selling a particular share or underwriting a particular share offer⁹². In terms of the Code, the rules applying to such promotions and recommendations reflect the particular risk that such references could result in financial harm to the audience, and the resulting need for editorial independence and transparency to be maintained and protected⁹³.

⁸⁷ Ibid.

⁸⁸ Ibid.

⁸⁹ The OFCOM Broadcasting Code (2011), p 62.

⁹⁰ Section 9.38 of the OFCOM Broadcasting Code (2011).

⁹¹ Section 9.39 of the OFCOM Broadcasting Code (2011).

⁹² The OFCOM Broadcasting Code (2011), p 61.

⁹³ The OFCOM Broadcasting Code (2011, p 61.

5.9 <u>Australia⁹⁴</u>

5.9.1 In Australia, broadcasting is regulated by the Australian Communications and Media Authority ("ACMA"). On the other hand, advertising is regulated by three regulators, namely the Advertising Standards Bureau ("ASB"), the Australian Competition and Consumer Commission ("ACCC") and the State Departments or Offices of Fair Trading ("State Department)⁹⁵.

Advertising Regulations

- 5.9.2 Television and radio advertising regulation in Australia differs according to the industry or sector involved⁹⁶. The regulations/codes on broadcasting include the following:
 - (a) the Commercial Television Industry Code of Practice ("Australia Code") has provisions about placement of advertisements, the amount of non-program matter (including advertisements) scheduled per hour, loudness of advertisements in relation to adjacent programming and disclosure of commercial arrangements (agreements or arrangements under which products or services are endorsed or featured in programs) in exchange for payment⁹⁷;
 - (b) The Children's Television Standards ("Children's Standards") regulate the amount and content of advertisements directed specifically at children during designated children's viewing periods⁹⁸;
 - (c) The Television Program Standard for Australian Content in Advertising ("TPS 23") regulates the amount of foreign-produced advertising that may be broadcast⁹⁹;
 - (d) The Commercial Radio Australia Code of Practice ("Commercial Radio Code") requires that advertising is clearly distinguishable from other

⁹⁴ <u>https://www.acma.gov.au/theACMA/About/Corporate/Responsibilities/regulation-responsibilities-acma,</u> retrieved on 9 July 2019.

⁹⁵ <u>https://www.acma.gov.au/theACMA/About/Corporate/Responsibilities/advertising-on-radio-and-tv,</u> retrieved on 8 July 2019.

⁹⁶ Ibid, retrieved on 8 July 2019.

⁹⁷ Ibid, retrieved on 8 July 2019.

⁹⁸ Ibid, retrieved on 8 July 2019.

⁹⁹ Ibid, retrieved on 8 July 2019.

program material and places restrictions on the promotion of betting odds and gambling advertisements in live sports coverage¹⁰⁰;

- (e) The Commercial Radio Disclosure Standards ("Disclosure Standards") regulate the disclosure of sponsorship arrangements¹⁰¹;
- (f) Community radio and television stations are not allowed to broadcast advertisements. They may broadcast sponsorship announcements, within hourly limits (five minutes for radio stations and seven minutes for television stations)¹⁰²;
- (g) The Special Broadcasting Service Code of Practice ("Special Broadcasting Code") has provisions about placement of advertisements and hourly time limits on advertisements¹⁰³;
- (h) The ASTRA Code of Practice for Subscription Narrowcast Television ("ASTRA Code") has provisions about the placement of advertisements and the content of locally produced advertisements¹⁰⁴; and
- The Open Narrowcast Television Code of Practice ("Open Code") has provisions about the placement of advertisements¹⁰⁵.

5.10 <u>Canada</u>

5.10.1 In Canada the Canadian Radio-television and Telecommunications Commission ("CRTC") regulates advertising.

Advertising

- 5.10.2 The CRTC defines advertising material as "any commercial message or programming that promotes a station, network or program but it does not include;
 - (a) a station or network identification;

¹⁰⁰ Ibid, retrieved on 8 July 2019.

¹⁰¹ Ibid, retrieved on 8 July 2019.

¹⁰² Ibid, retrieved on 8 July 2019.

¹⁰³ Ibid, retrieved on 8 July 2019.

¹⁰⁴ Ibid, retrieved on 8 July 2019.

¹⁰⁵ Ibid, retrieved on 8 July 2019.
- *(b) the announcement of an upcoming program that is voiced over credits; or*
- (c) a promotion for a Canadian program or a Canadian feature film, even if a sponsor is identified in the title of the program or film or as a sponsor of that program or film, as long as the identification is limited to the sponsor's name and does not include a description, representation or attribute of the sponsor's products or services^{''106}.
- 5.10.3 On the other hand, a commercial message is defined as "an advertisement that is intended to sell or promote goods, services, natural resources or activities, including an advertisement that mentions or displays in a list of prizes, the name of the person selling or promoting the goods, services, natural resources or activities, and that is broadcast in a break within a program or between programs"¹⁰⁷.
- 5.10.4 The CRTC allows various aspects of broadcasting to advertise for specified minutes depending on their importance¹⁰⁸. The time limitations exclude the promotion of Canadian programming, public service announcements, political advertisements and product placements within a television programming and virtual advertisements¹⁰⁹.
- 5.10.5 The CRTC stipulates that discretionary services¹¹⁰ receive a maximum of 12 minutes of national advertising, and mainstream sports services and national news services receive an average of 12 minutes per hour over the broadcast day¹¹¹. In contrast, television stations and commercial AM and FM radio stations do not have limitations on advertising¹¹². The Canadian Broadcasting Corporation's ("CBC") radio networks are prohibited from carrying advertising, except for programming already available on networks but strictly on a sponsored basis.

¹⁰⁶ https://laws-lois.justice.gc.ca/eng/regulations/SOR-2017-159/page-1.html.

¹⁰⁷ https://laws-lois.justice.gc.ca/eng/regulations/SOR-2017-159/page-1.html.

¹⁰⁸ https://crtc.gc.ca/eng/television/pulicit/publicit.htm.

¹⁰⁹ <u>https://crtc.gc.ca/eng/television/pulicit/publicit.htm</u>.

¹¹⁰ A discretionary service is a Canadian specialty channel which, as defined by the Canadian Radio-television and Telecommunications Commission, may be carried optionally by all subscription television providers.

 ¹¹¹ <u>https://crtc.gc.ca/eng/television/pulicit/publicit.htm</u>.
 ¹¹² https://crtc.gc.ca/eng/television/pulicit/publicit.htm.

Community Broadcasting Advertising

5.10.6 CRTC regulations require that¹¹³:

- (a) the cable community channels be restricted from carrying commercial advertising but be allowed to transmit sponsorships and contra advertising¹¹⁴;
- (b) community based low power television and digital services be restricted to 12 minutes of local advertising per hour;
- (c) campus radio stations are allowed 4.2 minutes per day of advertising; and
- (d) community radio stations are free from any time limitations of advertising.

Infomercials

- 5.10.7 The CRTC defines an infomercial as "a combination of entertainment and information with the sale or promotion of goods and services in a programme that is more than 12 minutes long". The infomercial must have a disclaimer informing the audience that the programming has been paid for by the company concerned¹¹⁵.
- 5.10.8 On commercial radio stations, an advertisement that's more than 3 minutes long must be identified as a paid commercial, by clear and prominent announcements, before and after the segments. Announcements must be repeated during breaks and before returning to a programme.¹¹⁶

¹¹³ <u>https://crtc.gc.ca/eng/television/pulicit/publicit.htm</u>.

¹¹⁴ Contra advertising refers to oral or written acknowledgement contained within a community program that has received goods and services free of charge for the use in connection with the product of the program.

¹¹⁵ https://crtc.gc.ca/eng/television/pulicit/publicit.htm.

¹¹⁶ https://crtc.gc.ca/eng/television/pulicit/publicit.htm.

6. CONCLUSION

- 6.1 Section 55(1) of the ECA states that the Authority regulates the scheduling of Advertising, Infomercials and Programme Sponsorship. The role of ASASA, as contemplated in section 55 (1) of the ECA is with regards to content of Advertising whilst the Authority's focus is on scheduling of adverts, infomercials and programme sponsorship.
- 6.2 The Authority acknowledges the rapid evolution of the broadcasting sector; hence, it started the process to review the Regulations and has conducted an international study, comprising of six countries. The study signifies the importance of distinguishing advertising, infomercials and programme sponsorship from normal programming and highlights the broadcasters' responsibility to maintain editorial independence. Further, the rules serve to protect viewers from both excessive commercial references in programming and from surreptitious advertising.
- 6.3 The Authority acknowledges the need for the broadcasters to generate revenue to sustain themselves, which should be balanced with the purpose of broadcasting, which is to inform, educate and entertain, whilst considering protection of consumers. Therefore, the purpose of this Discussion Document is to solicit comments as part of the process of reviewing the Regulations.
- 6.4 The Authority will hold public hearings on the Discussion Document to allow interested parties an opportunity to make oral presentation to their submissions. This will be followed by a Findings Document together with Draft Regulations. Further, the interested parties will be afforded an opportunity to make oral presentations on the Draft Regulations. After this stage the final Advertising Regulations will be published.

7. QUESTIONS

7.1 In reviewing the current Regulations on Advertising, Infomercials and Programme Sponsorship, the Authority considered the provisions of the legislation, the current Regulations, the views of interested parties as expressed in their responses to a questionnaire as well as international benchmarking. The information gathered through the aforesaid process necessitated a further engagement with stakeholders regarding provisions they would like to see forming part of the Regulations. The Authority felt that it is necessary and fair to provide interested stakeholders with an opportunity to make inputs that will strengthen the Regulations.

- 7.2 The following questions seek to get inputs and different views from stakeholders:
- 1. Are the current Regulations of Advertising, Infomercials and Programme Sponsorship effective? Please elaborate.
- 2. Is there a need to revisit the definition of Advertising, Infomercials and Programme Sponsorship? If the response is yes, how should they be redefined?
- 3. What is your view on advertising during news and current affairs for radio and television?
- 4. What is the impact of the current Advertising Regulations on the financial viability of broadcasters?
- 5. Are current Advertising Regulations able to protect broadcasters on editorial independence?
- 6. Does the current labelling of advertising make it easy for viewers/listeners to differentiate it from normal programming?
- 7. What is your view on advertisements that supersede programming?
- 8. What programmes should not allow infomercials?

- 9. Should the Authority regulate the duration of infomercials? Please elaborate
- 10. Should the Authority regulate the frequency of infomercials? Please elaborate.
- 11. What indicators of infomercials can be used so that they are easily identifiable?
- 12. Should the Regulations continue to prohibit the transmission of infomercials during prime time? Kindly provide a reason for your answer.
- 13. How should the Authority deal with push advertisement (squeezebacks)?
- 14. How should the Authority regulate product placement and promotional material inside a programme in a way that it does not supersede programming or tamper with editorial control?
- 15. What mechanisms should be put in place to ensure that programme sponsorship does not influence programmes?
- 16. What other measures can be put in place to ensure compliance with programme sponsorship requirements?
- 17. Should the Authority request that product placement be signalled? How should it be signalled?
- 18. Should product placement and sponsorship be allowed during children's programme? If so, what mechanisms should be put in place to ensure that there is a clear distinction between product placement and the programme?

- 19. Product placement is a component of branding, what other elements of branding should the Authority be concerned with?
- 20. In your view how should the Authority ensure that public interest is protected when regulating advertising, infomercials, product placement and programme sponsorship?
- 21. What lessons can be learned from other countries in terms of advertising, infomercials, programme sponsorship and product placement?
- 22. How should the Authority ensure the balancing act between sustainability of broadcasters relating to revenue generation through sponsorships, infomercials and advertising, with the need to protect the consumers?
- 23. What is your view in terms of promotional material inside programmes and advertising during the breaks on whether these amount to excessive advertising?
- 24. What are the determinants of advertising revenue?
- 25. What is the impact of online media on radio and television advertising revenue?
- 26. To what extent does the ECA provide the Authority with the requisite legislative mandate to regulate the broadcasting Advertising, Infomercials and Programme Sponsorship during the digital era?
- 27. To what extent should the Authority regulate Advertising, Infomercials and Programme Sponsorship in the digital environment to ensure that the regulations protect consumers?

28. Are there any other issues that the Authority should consider in the Regulation of Advertising, Infomercials and Programme Sponsorship? NO. 3

PROCLAMATION NOTICES • PROKLAMASIE KENNISGEWINGS

DEPARTMENT OF SCIENCE AND INNOVATION

26 March 2021



by the

President of the Republic of South Africa

COMMENCEMENT OF THE SCIENCE AND TECHNOLOGY LAWS AMENDMENT ACT, 2020 (ACT NO. 9 OF 2020).

In terms of section 54 of the Science and Technology Laws Amendment Act, 2020 (Act No. 9 of 2020), I hereby determine 01 April 2021 as the date on which the said Act comes into operation.

Given	under	my	Hand	and	the	Seal	of	the	Republic	of	South	Africa	at
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PRESIDENT ^V By order of the President-in-Cabinet

DR BE NZIMANDE MINISTER OF HIGHER EDUCATION, SCIENCE AND INNOVATION



ISIMEMEZELO

esivela

KuMongameli WaseRephabhuliki YaseNingizimu Afrika

No. R. 2021

UMTHETHO WOKUQALA UKUSEBENZA KOMTHETHO WOKUCHITSHIYELWA KWEMITHETHO YEZESAYENSI KANYE NOBUCHWEPHESHE, WEZI-2020 (UMTHETHO WE.9 KA-2020).

Ngokwesigaba se-54 soMthetho Wokichitshiyelwa Kwemithetho Yezesayensi Kanye Nobuchwepheshe, wezi-2020 (uMthetho We.9 wezi-2020), ngiqoka usuku lomhlaka 01 Mbasa 2021 njengosuku okuzoqala ngalo ukusebenza lo Mthetho.

UMongameli Ngomyalelo kaMongameli weKhabhinethi

DR BE NŻIMANDE UNGQONGQOSHE WEZEMFUNDO EPHAKEME, ZESAYENSI NEMIKHUBA EMISHA

PRESIDENT'S MINUTE NO: 19

In terms of section 54 of the Science and Technology Laws Amendment Act, 2020 (Act No. 9 of 2020), I hereby determine, by means of the accompanying proclamations in English and isiZulu, 01 of April 2021 as the date on which the said Act shall come into operation.

Given under my Hand and Seal of the Republic of South Africa at CARE Town on this 19 day of FEERUARY 2021

PRESIDENT

MINISTER OF THE CABINET /

7

BOARD NOTICES • RAADSKENNISGEWINGS

BOARD NOTICE 19 OF 2021

ENSURING THE EXPERTISE TO GROW SOUTH AFRICA

Recognition of Prior Learning Policy

RPL-POL

ENGINEERING COUNCIL OF SOUTH AFRICA Tel: 011 6079500 | Fax: 011 229295 Email: engineer@ecsa.co.za | Website: www.ecsa.co.za

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DEFINITIONS

Access refers to the provision of ease of entry to appropriate levels of education and training for all prospective applicants in a way that allows progression.

Authentic refers to evidence that must be attributed to the applicant.

Currency refers to evidence that must be related to current competence.

Progression refers to ensuring that the framework of qualifications allows individuals to move through the levels of national qualifications

Qualification refers to a registered national qualification consisting of a planned combination of learning outcomes which has a defined purpose, intended to provide qualifying students with applied competence and a basis for further learning and which has been assessed in terms of graduate attributes, registered on the National Qualifications Framework (NQF) and certified and awarded by a recognised institution.

Recognition of Prior Learning (RPL) is a process through which formal, non-formal and informal learning are measured, mediated for recognition across different contexts and certified against the requirements for credit, access, inclusion or advancement in the formal education and training system or workplace.

Sufficient refers to enough appropriate evidence to meet all criteria needed to certify the applicant as competent and it proves that the performance can be repeated.

Valid refers to the evidence that relates to the specific standards and criteria to be assessed.

ABBREVIATIONS

CBE	Council for the Built Environment
CHE	Council of Higher Education
DHET	Department of Higher education and Training
ECSA	Engineering Council of south Africa
EPA	Engineering Professions Act, 46 of 2000
HEQSF	Higher Education Qualification Sub Framework
IEA	International Engineering Alliance
IPD	Initial Professional Development
NATED	National Accredited Technical Education Diploma
NQF	National Qualification Framework
RPL	Recognition of Prior Learning
SAQA	South African Qualification Authority

BACKGROUND

The documents that define the Engineering Council of South Africa (ECSA) system for accreditation of programmes meeting educational requirements for professional categories are shown in Figure 1 which also locates the current document.



Figure 1: Documents defining the ECSA Accreditation System

ECSA defines RPL as in Section 19(2)(b)(iii) and (4) of the Engineering Professions Act, 46 of 2000 and compels ECSA to consider the submission of evidence of prior learning in engineering in its registration process taking into account "previous learning and experience of an applicant, how so ever obtained, against the learning outcomes required for a specified qualification and the acceptance for the purpose of qualification of that which meets those requirements."

This policy considers all RPL policies identified in section 3 below, specifically those in compliance with the new Higher Education Qualification Sub Framework (HEQSF), skills development providers, workplaces, RPL practitioners and RPL candidates.

1. PURPOSE OF THIS DOCUMENT

The purpose of this RPL Policy is to provide a strong enabling policy environment for the further development and implementation of RPL policy across the post-school education and training system, and across all levels of the NQF. To do so, this Policy establishes a coordinating mechanism for RPL, the funding thereof and the establishment of a fund for RPL implementation. It provides a firm policy statement to ensure that the NQF Act objectives are met, and especially to:

- facilitate access to and mobility and progression within education and training and career paths, (section 5(1)(b) of the NQF Act); and
- accelerate the redress of past unfair discrimination in education, training and employment opportunities (section 5(1)(d) of the NQF Act).

2. OBJECTIVES OF THE POLICY FRAMEWORK ON RPL

The objectives are to:

- meet the requirements of the Act in so far as to give credence to those persons presenting evidence of prior learning in engineering for registration as a Professional, a Candidate or in a specified category and as a specified category candidate
- facilitate recognition of competency and registration status for those applicants who do not fall within the accepted benchmark routes to registration
- broaden the entry routes into the profession and in so doing reduce the risk of danger in the interest of health and safety
- be aligned to the CBE policy on RPL
- be in compliance, where applicable, with the SAQA National Policy, QCTO RPL-001/14 Policy for the Implementation of RPL
- be in compliance, where applicable, with the CHE policies on the RPL.

3. PRINCIPLES FOR RECOGNITION OF PRIOR LEARNING

The principles embedded in this policy on assessment for RPL are as follows:

- The assessment must be credible, using various methods and instruments.
- The cost of RPL must be transparent and cost effective.
- Evidence must be valid, authentic, current and sufficient.
- Assessment must be planned and designed on the basis of understanding the requirements of previously accepted unit standards, part and whole qualifications, SAQA level descriptions and NQF level ratings.
- Moderation and quality assurance of the assessment must be undertaken.

- The system, process, competency requirements and assessment of RPL must be simple and easily understood.
- The system must comply with the requirements in the latest edition of the following policies
 - SAQA National Policy and the QCTO RPL-001/14 Policy for the Implementation of RPL
 - CHE policies on RPL
 - o CBE Framework on RPL
 - NQF RPL co-ordinating Policy

4. POLICY STATEMENT

The implementation of RPL in general seeks to facilitate access to and mobility and progression within education, training and experience in arriving at a defined competency level in the workplace. It is, however, restricted by the different teaching and learning methodologies among technology and engineering science programmes.

4.1 Specified Categories

The Specified Category Alternate route allows experience of a defined standard and duration to be accepted in lieu of academic qualifications. The criterion-based method of meeting education requirements by evaluation and assessment is defined in **E-17-PRO-SC**.

4.2 Professional Engineering Technicians and Technologists

The educational base qualifications for the registration of Professional Technicians and Technologists is assessed not only through the benchmark qualifications presently provided through the suite of NATED 151 qualifications and the new HEQSF suite of educational programmes, but also through an engineering base qualification starting at least at NQF level 4. This is combined with Initial Professional Development (IPD) courses and a time period of working in engineering and responsible engineering at the designated NQF level and the International Engineering Alliance (IEA) Level Descriptors of Well Defined Activities and Broadly defined activities referred to in the Registration Document **R-02-STA-PE/PT/PCE/PN**.

4.3 Professional Certificated Engineers

The educational base qualifications for appointment as a Certificated Engineer, are a recognised engineering qualification, which requires varying periods of in-service training and experience.

Registration as a Professional Certificated Engineer in terms of document **R-02-STA-PE/PT/PCE/PN** requires the applicant to possess relevant skill, knowledge and experience to carry out broadly defined work. Registration in addition requires the applicant to hold a responsible appointment in terms of one of the Acts.

4.4 Professional Engineers

The educational base qualification for registration as a Professional Engineer is the South African Accredited engineering degree in compliance with **E-02-PE** or **E-22-PE**, or a suite of qualifications as indicated in ECSA educational policy **E-17-PRO**.

Registration as a Professional Engineer is dependent on the applicant meeting the requirements stipulated in Document **R-02-STA-PE/PT/PCE/PN** at the IEA level descriptors of Complex Activities.

5. APPLICABLE LEGISLATIVE FRAMEWORK

Section 19(2)(b)(iii) and (4) of the Engineering Professions Act, 46 of 2000 compels ECSA to consider the submission of evidence of prior learning in engineering in its registration process taking into account "previous learning and experience of an applicant, how so ever obtained, against the learning outcomes required for a specified qualification and the acceptance for the purpose of qualification of that which meets those requirements".

This policy must be read in conjunction with:

- The Council for the Built Environment (CBE) Act, 43 of 2000 and with ECSA's individual policies being aligned to the CBE framework
- The South African Qualifications Authority (SAQA), National Policy for the Implementation
 of the Recognition of Prior Learning (RPL) 2013, that served as a guide for ECSA in the
 development of its own RPL implementation policies inclusive of ECSA's professional
 requirements.
- The Council on Higher Education (CHE) policies on the Recognition of Prior Learning, Credit Accumulation and Transfer, and Assessment in higher education (August 2016).
- National Qualifications Framework Act, 67 of 2008; Recognition of Prior Learning (RPL) Coordination Policy (February 2016).
- SAQA's Policy and Criteria for Recognising a Professional Body and Registering a Professional Designation for the Purposes of the NQF Act, 67 of 2008 (as amended, March 2018)

• QCTO Policy for the implementation of Recognition of Prior Learning (RPL)

6. NATIONAL AND INTERNATIONAL COMPLIANCE

ECSA is recognised internationally under the auspices of the IEA via the following:

6.1 Educational Accords:

- Washington Accord (WA)
- Sydney Accord (SA)
- Dublin Accord (DA).

6.2. Competency Agreements:

- International Professional Engineers Agreement (IPEA)
- International Engineering Technologist Agreement (IETA)
- Agreement for International Engineering Technicians (AIET).

ECSA is not a member of the Asia Pacific Economic Cooperation (APEC) Engineer Agreement (one of the 4 competency agreements) due to South Africa's geographical position.

7. POLICY PROVISIONS

The principles embedded in this policy on assessment for RPL are as follows:

- The assessment must be credible, using various methods and instruments.
- The cost of RPL must be transparent and cost effective.
- Evidence must be appropriate.
- Assessment must be planned and designed on the basis of understanding the requirements of previously accepted unit standards, part and whole qualifications, SAQA level descriptions and credit ratings.
- Moderation and quality assurance of the assessment must be undertaken.
- The system, process, competency requirements and assessment of RPL must be simple and easily understood.
- The system must comply with the RPL model as described in section 7.1 below.

7.1 ECSA RPL Model

The ECSA model on RPL is embedded in the following ECSA approved policy documents.

 Criteria and Processes for Recognition of Educational Qualifications for Professional Categories – E-17-PRO

- Criteria and Processes for Recognition of Educational Qualifications for Specified Categories – E-17-PRO-SC
- Assessment of Educational Achievement in Professional Categories E-18-PRO
- Policy on Registration of persons in Professional Categories **R-01-POL-PC**
- Policy on Registration of persons in a Specified Category R-01-POL-SC
- Competency Standard for Registration as a Professional Engineer R-02-STA-PE/PN/PT/PCE
- Competency Standard for the Registration in a Specified Category R-02-STA-SC.

Each policy irrespective of whether it is referenced to professional categories or specified categories defines four methods of meeting the educational requirements for registration either as a Candidate, or registration as a Professional or Specified Category Practitioner. This is detailed in document **E-17-PRO**.

ECSA also emphasises the accumulation of a combination of qualifications and Initial Professional Development (IPD) credits, at the appropriate NQF level coupled with work place experience in recognising a qualification as substantially equivalent to meet the minimum educational requirements to register as an Engineering Practitioner or Candidate Engineering Practitioner.

- Credits are awarded for knowledge and skills and not for experience alone.
- Detailed requirements for the various methods of satisfying the educational requirements for registration are set out in the documents tabled in 7.1 of this document.

BOARD NOTICE 20 OF 2021

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ENSURING THE EXPERTISE TO GROW SOUTH AFRICA

Overarching Code of Practice for the Performance of Engineering Work

ENGINEERING COUNCIL OF SOUTH AFRICA Tel: 011 6079500 | Fax: 011 6229295 Email: engineer@ecsa.co.za | Website: www.ecsa.co.za

This gazette is also available free online at www.gpwonline.co.za

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ENGINEERING COUNCIL OF SOUTH AFRICA

Overarching Code of Practice for the Performance of Engineering Work

Engineering Profession Act, 2000

(Act 46 of 2000)

In terms of Section 27 of the Engineering Profession Act, 46 of 2000, the Engineering Council of South Africa makes known the Overarching Code of Practice for the Performance of Engineering Work in the Schedule.

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SCHEDULE

DEFINITIONS

Act means the Engineering Profession Act, 46 of 2000 "as revised".

Appointment means a formal appointment of a practitioner by an employer or client to undertake and/or oversee and approve engineering work.

CBE means the Council for the Built Environment established by Section 2 of the Council for the Built Environment Act, 43 of 2000.

Code of Conduct means the Code of Conduct for Registered Persons: Engineering Profession Act, 46 of 2000, Board Notice 41 of 2017 – Government Gazette 142 No. 40691.

Competency means a combination of knowledge, training, experience and applicable qualifications that enables an individual to perform a task or an activity successfully.

Competent Person means a person who has the required knowledge, training, experience and, where applicable, qualifications, specific to the work or task being performed; provided that where appropriate qualifications and training are registered in terms of the provisions of the National Qualification Framework Act, 67 of 2008, those qualifications and that training are regarded as the required qualifications

Council means the Engineering Council of South Africa established by Section 2 of the Act.

Discipline means the disciplines of engineering as recognised by the Engineering Council of South Africa.

ECSA means the Engineering Council of South Africa established by Section 2 of the Act.

Engineering Work means the process of applying engineering and scientific principles, concepts, contextual and engineering knowledge to the research, planning, design, implementation, maintenance and management of work in the natural and built environments. It includes advisory services, assessment of engineering designs and determination of the risks posed by the design on workers, the public, and environment.

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Information means engineering documents and data produced or relied on in the performance of engineering work that form a material part of the project records, among others design calculations, drawings, contract agreements, minutes of meetings and reports, whether in electronic format or otherwise.

Practice means any engineering professional service, advisory service or creative work requiring engineering education, training and experience and the application of special knowledge of the mathematical, physical and engineering sciences, or creative work such as consultation, research, investigation, evaluation, planning, surveying, risk assessment and design, in connection with any public or private utility, structure, building, machine, equipment, process, work or project.

Practitioner (or engineering practitioner) means a person who performs engineering work or provides advisory services relating to engineering work. It includes both registered persons and unregistered persons.

Profession means Engineering Profession.

Professional Registration Category means a professional registration category as specified under Section 18(1) (a)–(c) of the Act, including Professional Engineer, Professional Engineering Technologist, Professional Certificated Engineer, Professional Engineering Technician, Candidate and Specified Category Practitioner.

Registered Person means a person registered under a category referred to in Section 18 of the Act.

Unregistered Person means any person undertaking engineering work who is not registered in terms of the Act. This does not include persons registered by other statutory bodies and are part of teams undertaking engineering work.

Works (or engineering works) means a process, structure, component, machine or similar that is carried out, constructed, erected, demolished, manufactured or maintained within the natural or built environment, typically in conformance with an engineering design.

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1. INTRODUCTION

In terms of Section 27(1) of the Act, the Council must draw up a Code of Conduct for Registered Persons and may draw up a Code of Practice in consultation with the Council for the Built Environment, Voluntary Associations and registered persons. The Council is also responsible for administering the Code of Conduct and the Code of Practice and ensuring that these codes are available to all members of the public at all reasonable times. This Code of Practice for the Performance of Engineering Work was developed in consultation with the relevant stakeholders as required by the Engineering Profession Act, 46 of 2000.

This Code of Practice applies to all engineering disciplines and is referred to as an "overarching" Code of Practice. Respective disciplines and sub-disciplines may develop their own codes of practice to complement this code. This Code of Practice should be read in conjunction with the Code of Conduct for Registered Persons and is not intended to duplicate the requirements thereof.

2. POLICY STATEMENT

This code is a statement of good practice for the performance of engineering work by Registered or Unregistered Persons. It is applicable to the entire engineering profession. Section 27(3) of the Act requires Registered Persons to adhere to the requirements of this code.

3. PURPOSE

The purpose of this Code of Practice is to ensure that any person undertaking engineering work meets the prescribed requirements when practising and executing engineering work within the jurisdiction of the Act. The Code also sets appropriate levels of competence, regulating the execution of engineering work and specifying technical standards and best practices. Among others, the Code of Practice ensures that:

(a) Practitioners apply their specialised knowledge within their competence and skill in accordance with all relevant legislation;

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- (b) All Engineering Work is performed by a competent person and uniform competency and conduct standards apply to all practitioners;
- (c) Engineering Work is performed in accordance with generally accepted norms and standards of the engineering profession;
- (d) Practitioners apply innovation in a responsible and appropriate manner within their category and discipline of competence;
- (e) Registered Persons apply their specialised knowledge and skill within their respective disciplines and categories of registration to ensure that engineering practice is appropriate, applicable, acceptable, affordable and sustainable; and
- (f) Registered Persons encourage innovation, promote social upliftment where possible in all aspects of engineering works and set examples within the engineering profession.

4. APPLICABLE LEGISLATIVE FRAMEWORK

This Code of Practice should be read in conjunction with the Engineering Profession Act 46 of 2000, and the Code of Conduct for Registered Persons, Gazette no. 40691, dated 17 March 2017 as Board Notice 41 of 2017.

5. ETHICAL VALUES

Registered Persons must comply with Code of Conduct for Registered Persons.

6. ENGINEERING WORK

6.1 Nature of engineering work

- (a) The performance of Engineering Work requires solving engineering problems and engaging in engineering activities.
- (b) The broader context of Engineering Work encompasses a number of engineering disciplines and sub-disciplines, each dealing with a specific body of knowledge.

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- (c) Depending on the level of complexity, Engineering Work is carried out by practitioners possessing different levels of competence as typified by the various categories of registration given in Section 18(1) of the Act.
- (d) Due to a common grounding in the mathematical and physical sciences, there are areas of overlap among the various disciplines of engineering as well as overlaps with other professions within the built environment. These overlaps generally occur at a basic level and divergence increases with the degree of specialisation.

6.2 Range of engineering problems and engineering activities

For the purposes of this code:

- Engineering problems are classified as complex, broadly defined, well-defined and specifically defined problems. The basis of the classification of engineering problems is given in the R-02-PE/PT/PCE/PN/SC documents available on the ECSA website.
- Engineering activities are classified as complex, broadly defined, well-defined and specifically defined activities. The basis of the classification of engineering activities is given in the R-02-PE/PT/PCE/PN/SC documents available on the ECSA website.

6.3 Engineering disciplines

The Council recognises the following engineering disciplines:

- aeronautical
- agricultural
- chemical
- civil
- computer
- electrical
- industrial
- mechanical
- mechatronics
- metallurgical
- mining

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• specified categories.

Many of the engineering disciplines have sub-disciplines.

A Practitioner's engineering discipline is determined by tertiary education qualification and the discipline under which the Practitioner is registered by the Council.

6.4 Categories of registration

Engineering professionals' category of registration is determined by the category under which they are registered by the Council in terms of Section 18(1) of the Act.

The categories of registration include:

- Professional Engineer (PrEng) registered in terms of Section 18(1)(a)(i) of the Act
- Professional Engineering Technologist (PrTechEng) registered in terms of Section 18(1)(a)(ii) of the Act
- Professional Certificated Engineer (PrCertEng) registered in terms of Section 18(1)(a)(iii) of the Act
- Professional Engineering Technician (PrTechniEng) registered in terms of Section 18(1)(a)(iv) of the Act
- Specified Category Practitioner registered in terms of Section 18(1)(c) of the Act
- Candidate registered in terms of Section 18(1)(b) of the Act.

7. COMPETENCY REQUIREMENTS

7.1 General requirements

- (a) All Engineering Work must be carried out by a competent engineering practitioner who is qualified by virtue of knowledge, training, experience and applicable qualifications to perform such work.
- (b) All Practitioners must confine their performance of Engineering Work to the disciplines in which they are competent and / or registered by the Council, subject to the provisions of (a) above.

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- (c) All Practitioners must undertake continuing professional development (CPD) or independent learning activities sufficient to maintain and extend their competence in line with current good practice in the industry.
- (d) Practitioners' competence and the nature of the work they are competent to perform should be assessed in terms of the criteria applicable to Registered Persons.

7.2 Requirements for Registered Persons

- (a) Registered Persons must comply with the provisions of the Act.
- (b) Registered Persons must demonstrate competence in accordance with the latest revision of the applicable ECSA Competency Standards. The applicable competency standards are:
 - Competency Standard for Registration in Professional Categories as R-02-STA-PE/PT/PCE/PN.
 - Specified Category Practitioner: Competency Standard for Registration in a Specific Category R-02-SC.
- (c) Registered Persons may not undertake Engineering Work involving engineering problems and/or engineering activities more complex than those applicable to their category of registration as set out in the above referenced competency standards.
- (d) Engineering Work performed by a person who is registered in the category of Candidate must be carried out under the supervision and control of a Registered Person in accordance with the provision of clause 8.2.
- (e) Registered Persons must comply with the Council's CPD requirements.

7.3 Overlaps

Persons registered in a particular discipline may perform Engineering Work in a different discipline if their knowledge, training, experience and applicable qualifications specifically render them competent to perform such work.

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Persons registered as professionals under a Professions' Act other than the Engineering Profession Act may perform Engineering Work if their knowledge, training, experience and applicable qualifications specifically render them competent to perform such work and the work is performed in accordance with the requirements of the Act under which they are registered. The assessment of competency should be in accordance with 7.1(d).

8. PRACTICE REQUIREMENTS

8.1 Adherence to legislation and recognised standards

In executing Engineering Work, Practitioners must comply with all relevant legislation and amendments thereto, among others:

- Engineering Profession Act 46 of 2000
- Occupational Health and Safety Act, 85 of 1993
- National Building Regulations and Building Standards Act, 103 of 1977
- National Environmental Management Act, 107 of 1998
- Employment Equity Act, 55 of 1998.

All Engineering Work must be carried out in accordance with the norms of the profession. Such norms are generally represented by national and international standards, industry standards, codes of practice and best practice guidelines.

Any deviation from recognised standards or work beyond the scope of such standards should be assessed in terms of sound engineering and scientific fundamentals by a Practitioner with the required competence.

8.2 Supervision of Candidates and Unregistered Persons

Engineering work by a Candidate or by an Unregistered Person acting on behalf of a Registered Person must be performed under the direction, control and supervision of a person registered in the appropriate category and discipline who must assume full professional responsibility for such work.

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Any decisions or instructions by a Candidate or an Unregistered Person acting on behalf of a Registered Person must be confirmed by a Registered Person in writing.

8.3 Checking of Engineering Work

All designs, drawings, reports and similar documentation must be reviewed by a competent person.

Note: The extent of the review depends on the nature or the work and the size of the organisation. Sole Practitioners should, as a minimum, re-read and self-check all documents, and/or repeat any calculations preferably using different methods or undertake independent third-party review.

8.4 Inspection and monitoring of works

- (a) Practitioners responsible for the design of works must carry out the necessary inspection and monitoring during and after the execution of the works to ensure that the design intent has been met, unless this is excluded from the Practitioner's scope or an independent person/ organisation is appointed for this purpose.
- (b) No approval or final certificate may be issued if the inspection and monitoring necessary for such approval or certification have not been carried out or the design intent has not been met.
- (c) Where such inspection and monitoring are carried out by a person other than the Registered Person issuing the approval or certification, the Registered Person must satisfy him- or herself of the competence of the other person and the adequacy of the inspection and monitoring, and must assume full responsibility for the correctness of the approval or certification.
- (d) A Registered Person responsible for inspection, certification or approval of works must take reasonable steps to ascertain the programme of works and when such inspections are required.

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(e) Where a Registered Person responsible for certification or approval of works is unable to fulfil the above requirements, he or she must immediately inform the owner/client and, where appropriate, the relevant authority.

8.5 Records

All information produced during the performance of Engineering Work must be safely and securely stored for future reference for a minimum period of 10 years from the date of completion of the work, as specified in the Code of Conduct.

Where this information is stored in electronic format, reasonable steps must be taken to protect the data against unauthorised access, loss or deletion.

8.6 Signing of documents

- (a) The Practitioner's and reviewer's signatures must be affixed to all design calculations, drawings, reports, instructions, certificates and similar documents together with the names of the signatories and dates of signature. Authenticated or certified electronic signatures may be used.
- (b) Documents compiled by a Candidate must be signed both by the Candidate and by the Registered Person under whose supervision and control the document was compiled.
- (c) Practitioners may not:
 - o sign blank or incomplete documents
 - sign documents on behalf of another Practitioner without written consent of that Practitioner; or
 - o permit the use of their signature by others without written consent.
- (d) On becoming aware of a document signed on their behalf without their consent, Practitioners must take all reasonable steps to withdraw the document. Failure to do so will be taken as consent by the Practitioner to the use of their signature.
- (e) Practitioners must take full responsibility for the content of any documents signed on their behalf with their consent.

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8.7 Quality and risk management

Practitioners must implement quality and risk management systems covering all aspects of their work, appropriate to the nature of the work and the size of the organisation.

Quality and risk management systems must be reviewed on a regular basis. Compliance with the system should be audited at least annually.

Organisations undertaking Engineering Work should consider external certification, such as ISO 9001 and ISO 14001.

9. GOOD PRACTICE GUIDELINES-INFORMATIVE

9.1 Appointments and contract agreements

- (a) Tenders or proposals for the performance of Engineering Work should be in writing clearly stating the scope of the work, deliverables, assumptions, exclusions, limitations, client-supply items, programme, basis of pricing and terms of contract. Where possible, standard forms of contract should be used.
- (b) All appointments should be in writing and should incorporate the information stipulated in 9.1(a), either expressly or by reference.
- (c) Variations to agreements should be recorded in writing and signed by all parties to the agreement.

9.2 Intellectual property rights and confidentiality

The ownership of intellectual property rights should be agreed between the parties. In the absence of such an agreement, the ownership of intellectual property remains with the party who created or supplied the intellectual property.

Practitioners must respect intellectual property rights and adhere to the terms of any confidentiality agreements between parties.

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9.3 Professional activities and responsibilities

Practitioners at all levels are encouraged to register with the Council and to engage in the activities of learned societies and Voluntary Associations.

Mentoring of young Practitioners should be a priority in any engineering organisation. Exchange programmes between employers can be considered where the necessary range of experience is not available in-house.

Leading Practitioners are encouraged to contribute actively to the advancement of the profession through professional organisations, standards authorities, Voluntary Associations, research institutions and learned societies. Interaction between Practitioners and institutions of higher education should also be encouraged.

10. INTERPRETATION AND COMPLIANCE

10.1 Interpretation

- (a) In this code, reference to the singular includes the plural and reference to one gender includes the other.
- (b) Any terms or words not defined have their normal meanings.
- (c) All Sections of this Code of Practice are normative unless marked "informative".

10.2 Compliance

In terms of Section 27(3) of the Act, all Registered Persons must comply with this Code of Practice.

This code serves as a statement of good practice within the industry and is intended to establish the norms of the profession with regard to the competence and conduct of all Practitioners, whether registered or not.

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11. ADMINISTRATION

11.1 General

This Code of Practice is subject to revision by the Council from time-to-time, in consultation with the Council for the Built Environment, Voluntary Associations and Registered Persons.

The Council is responsible for administering this Code of Practice and must ensure that the latest version of the code is posted on the Council's web site.

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BOARD NOTICE 21 OF 2021



ENSURING THE EXPERTISE TO GROW SOUTH AFRICA

BOARD NOTICE

IDENTIFICATION OF ENGINEERING WORK REGULATIONS



ENGINEERING COUNCIL OF SOUTH AFRICA Tel: 011 6079500 | Fax: 011 6229295 Email: engineer@ecsa.co.za | Website: www.ecsa.co.za

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ENGINEERING COUNCIL OF SOUTH AFRICA

NOTICE IN TERMS OF THE ENGINEERING PROFESSION ACT, 2000 (ACT NO. 46 OF 2000)

The Council for the Built Environment has under section 20(2) of the Council for the Built Environment Act, 2000, (Act No. 43 of 2000), read with regulation 2 of the Identification of Work Regulations, 2013, and in accordance with the Council for the Built Environment Policy with Regard to the Identification of Work for the Built Environment Professions determined by the Council for the Built Environment under section 20(1)(a) of the Council for the Built Environment Act, 2000, identified the scope of work for the Engineering Council of South Africa set out in the Schedule.

SCHEDULE

DEFINITIONS

1. In this notice, unless the context otherwise indicates, every word takes the meaning as defined in the Engineering Profession Act and the Built Environment Act, 2000, and

"categories of registration" means the categories in which a person is registered in terms of section 18(1(a) of the Engineering Profession Act;

"construction works" means the provision of a combination of goods and services arranged for the development, extension, installation, repair, maintenance, renewal, removal, renovation, alteration, dismantling or demolition of a fixed asset including buildings;

"construction works project" means a project of which the scope comprises construction works:

"core service" means a service referred to in item 4;

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which is applied in a specific context;

"ECSA" means the Engineering Council of South Africa established under section 2 of the Engineering Profession Act;

"engineering discipline" means the body of knowledge which is applied in one of the following contexts-

- (a) aeronautical;
- (b) agricultural;
- (c) chemical;
- (d) civil;
- (e) electrical or electronic;
- (f) industrial;
- (g) mechanical;
- (h) metallurgical; or mining;

"engineering infrastructure" means infrastructure comprising engineering works including transport, water, energy, communications and waste management infrastructure;

"Engineering Profession Act" means the Engineering Profession Act, 2000 (Act No. 46 of 2000) and any regulations issued in terms thereof;

"engineering project" means a project of which the scope comprises engineering work including engineering infrastructure;

"engineering work" means the process of applying engineering and scientific principles, concepts, contextual and engineering knowledge to the research, planning, design, implementation and management of work in both the natural and built environments;

"principal consultant" means the person or entity appointed by the client to manage and administer the services of all other consultants;

"principal agent" means the person or entity appointed by the client and who has full authority and obligation to act in terms of the construction contract;

"profession" means any of the professions regulated by the professions' Acts,

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"professional certificated engineer" means a person registered in that category in terms of section 18(1)(a)(iii) of the Engineering Profession Act;

"professional engineer" means a person registered in that category in terms of section 18(1)(a)(i) of the Engineering Profession Act;

"professional engineering technician" means a person registered in that category in terms of section 18(1)(a)(iv) of the Engineering Profession Act;

"professional engineering technologist" means a person registered in that category in terms of section 18(1)(a)(ii) of the Engineering Profession Act;

"service" means a core service or a specialised service;

"specialised service" means a service which falls outside the standard competencies of a registered person who is a professional and which requires an additional qualification, experience, skill and/or registration with any other applicable council for the professions; and

"specified category practitioner" means a person registered in terms of section 18(1)(c) of the Engineering Profession Act as a registered lift inspector, registered lifting machinery inspector, medical equipment maintainer, fire protection systems inspector or any other category specified by ECSA.

IDENTIFIED ENGINEERING WORK

- 2. (1) For the purposes of this Notice, identified engineering work is work that-
 - (a) entails the engineering activities performed by a person registered in one of the categories of registration to differentiate the one category of registration from another;
 - (b) requires for its performance the core competencies within the competency areas that a registered person must possess to perform engineering work in the appropriate category of registration;
 - (c) includes the core services performed by a registered person in any of the categories of registration in a particular engineering discipline;
 - (d) includes the practise areas of a particular engineering discipline within which a registered person performs engineering work; and

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(e) involves pe discipline in	rforming core services in any accordance with the scope of se	of the practise areas of ervices, if applicable.	an engineering
(2) The elements	of identified engineering work c	ontemplated in sub-item (1)	are referred to

- in-
- (a) item 3 which contains the criteria for category differentiation that is used to determine the engineering activities performed by a person registered in one of the categories of registration;
- (b) item 4 which contains the core competencies required for each competency area;
- (c) items 6 to 15 which contain the core services and practice areas for each of the engineering disciplines; and
- (d) item 16 which contain the scope of services for specific engineering work.

CATEGORY DIFFERENTIATION AND ENGINEERING ACTIVITIES

3. (1) The criteria for category differentiation is based on a distinction between -

- a) a complex, broadly-defined, well-defined and specifically-defined engineering problem; and
- b) a complex, broadly-defined, well-defined and specifically-defined engineering activity.
- (2) A complex engineering problem is a problem that
 - a) requires in-depth fundamental and specialised engineering knowledge and at least one of the following attributes:
 - (i) Is ill-posed, under- or over specified and requires identification and refinement;
 - (ii) is high-level and includes component parts or sub-problems;
 - (iii) is unfamiliar or involves infrequently encountered issues; and
 - b) possesses, in addition to he attributes referred to in paragraph (a), at least one of the following attributes:
 - (i) The solution is not obvious and requires originality or analysis based on fundamentals;
 - (ii) is outside the scope of standards and codes;
 - (iii) requires information from a variety of sources that is complex, abstract or incomplete;

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(iv) i	nvolves wide-	anging or conflicting issu	les of a technical or er	ngineering nature and
i	nvolves wide-	anging interested or affe	cted parties with wide	-ranging or conflicting
C	opinions; and			
c) p	oossesses, in	addition to the attributes r	eferred to in paragraph	ns (a) and (b), at least
(one of the follo	wing attributes:		
(i) 1	The problem re	equires judgement in decis	sion making in uncertai	n contexts;
(ii) ł	nas significant	consequences in a range	of contexts.	
(3)	A broadly-defir	ed engineering problem is	s a problem that-	
(a) r	equires coher	ent and detailed enginee	ring knowledge underp	pinning the applicable
t	echnology are	a and at least one of the f	ollowing attributes;	
(i)	Is ill-posed,	under- or over specified,	requiring identification	and interpretation into
	the technolo	gy area;		
(ii)	encompass	systems within broadly-de	efined engineering syste	ems;
(iii)	belong to fa ways;	milies of problems which	are solved in well-ac	cepted but innovative
(b) f	oossesses, in a	addition to the attributes re	eferred to in paragraph	(a), at least one of the
f	ollowing attrib	utes:		
(i) Can be so	ved by structured analysis	s techniques;	
(ii) may be pa	artially outside standards	and codes but must p	provide justification to
	operate ou	tside;		
(iii) requires in	formation from a practice	area and sources inter	rfacing with a practice
	area that is	s broadly-defined or incom	nplete;	
(iv) involves a	variety of issues which m	ay impose conflicting o	constraints: technical,
	engineerin	g and interested or affecte	ed parties;	
(c) p	oossesses, in a	addition to the attributes r	eferred to in paragraph	ns (a) and (b), at least
С	one of the follo	wing attributes:		
(i) requires ju	dgement in decision mak	ing in a practice area,	considering interfaces
	to other ar	eas		
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(ii)	has significant consequence	es which are i	mportant in a practic	e area, but may
	extend more widely.			
(4) A well-defi	ned engineering problem is a	problem that-		
(a) car	be solved mainly by practic	cal engineerin	g knowledge, underpi	nned by related
the	ory;			
(b) pos	sesses, in addition to the attri	butes referred	to in paragraph (a), a	t least one of the
folle	owing attributes:			
(i)	Is largely defined but may re-	quire clarificat	on;	
(ii)	requires discrete, focused tas	sks within eng	ineering systems;	
(iii)	is routine, frequently encount	tered and may	be unfamiliar but in fa	amiliar context;
(c) pos	sesses, in addition to the attr	ibutes referre	d to in paragraphs (a)	and (b), at least
one	of the following attributes:			
(i)	Can be solved in standardise	ed or prescribe	ed ways;	
(ii)	is encompassed by standard	ds, codes and	documented procedu	res and requires
	authorisation to work outside	e limits;		
(iii)	the information is concrete	and largely	complete, but require	s checking and
	possible supplementation;			
(iv)	involves several issues but w	vith few of the	se imposing conflicting	constraints and
	a limited range of interested	and affected p	arties;	
(d)pos	sesses, in addition to the att	ributes referre	d to in paragraphs (a), (b) and (c), at
lea	st one of the following attribute	es:		
(i)	requires practical judgement	in a practice a	rea in evaluating soluti	ions, considering
	interfaces to other role-playe	ers;		
(ii)	has consequences which are	e locally impor	ant but not far reachir	ıg.
(5) A specifica	lly-defined engineering proble	em is a probler	n that-	
(a) car	be solved primarily by specif	fic practical er	ngineering knowledge,	underpinned by
rela	ted theory and at least one of	f the following	attributes:	
(i)	Is fully defined but require feature	edback;		
(ii)	is discrete, specifically focus	ed tasks withir	n engineering systems	,
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(iii)	is routine, frec	uently encountered, m	nay be unfamiliar but in a	familiar specified
	context;			
(b) po :	ssesses, in addi	tion to the attributes ref	erred to in paragraph (a),	at least one of the
foll	owing attributes	:		
(i)	Can be solved	by standardised or pre	escribed ways;	
(ii)	is encompasse	ed by specific standard	ls, codes and documente	d procedures and
	requires autho	risation to work outside	limits;	
(iii)	the information	n is concrete, specific a	and largely complete, but	requires checking
	and possible s	upplementation;		
(iv)	involves speci	fic issues but few of th	nese imposing conflicting	constraints and a
	specific range	of interested and affect	ted parties;	
(ii)	considering int has conseque its wider impac	erfaces to other role plances which are locally in the dealt with by othe	ayers; mportant but within a spec ers.	ified category and
(6) For the pu	rpose of this iter	m, a complex engineeri	ng activity means an activ	ity that has two or
more of th	e following char		e entire complex ensire	arian avatama ar
(a) Th COI	nplex subsyster	ns;	s entire complex engine	ening systems or
(b) it h un	as a context that	at is complex and vary v need to be identified;	ing, is multidisciplinary, re	equires teamwork,
(c) it r	equires diverse	and significant resour	rces: including people. m	oney, equipment.
ma	terials and tech	nologies;		
(d) sig	nificant interaction	ons exist between wide-	- ranging or conflicting tech	nical, engineering
or	other issues;			
(e) it is	s constrained by	y time, finance, infrastr	ructure, resources, facilitie	es, standards and
COO	des and applicat	ole laws;		
(f) it h	as significant ris	ks and consequences	in a range of contexts;	
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(g) it includes	out is not limited to design; p	lanning; investigation and pro	blem resolution;		
improveme	nt of materials, componen	ts, systems or processes;	implementation,		
manufactur	e or construction; engineering	g operations; maintenar	nce; closure or		
disposal; p	oject management; research	, development and commerci	alisation.		
(7) For the purpose of	this item, a broadly-defined e	engineering activity means an	activity that has		
two or more of the	following characteristics:				
(a) The scope	of the practice area i linked to	o technologies used and chan	ges by adoption		
of new tech	inology into current practice;				
(b) the practice	area is located within a wid	ler, complex context, requires	s teamwork, has		
interfaces t	o other parties and discipline	s;			
(c) it involves	the use of a variety resou	irces, including people, mor	ney, equipment,		
materials, t	echnologies;				
(d) it requires	resolution of occasional prob	lems arising from interactions	s between wide-		
ranging or	conflicting technical, engineer	ring and other issues;			
(e) it is constr	ained by available technolo	ogy, time, finance, infrastruc	ture, resources,		
facilities, st	andards and codes and appli	cable laws;			
(f) it has signif	icant risks and consequences	s in a practice area and relate	d areas.		
(g) it includes	out is not limited to design; pl	lanning; investigation and pro	blem resolution;		
improveme	nt of materials, component	ts, systems or processes;	implementation,		
manufactur	e or construction; engineering	g operations; maintenanc	ce; closure or		
disposal; p	oject management; research	, development and commerci	alisation.		
(8) For the purpose of	this item, a well-defined engin	neering activity means an acti	vity that has two		
or more of the follo	wing characteristics:				
(a) The scope	of the practice area is define	d by techniques applied; cha	nge by adopting		
new techni	ques into current practice;				
(b) the practice	area is located within a wid	der, complex or broadly-defin	ed context, with		
well-define	3 working relationships with o	other parties and disciplines;			
(c) the work i	volves tamiliar, defined rar	nge of resources (including	people, money,		
equipment,	materials and technologies);	Sector de la character de la construction de la character de la character de la character de la character de la	the life starts 10		
(d) it requires r	esolution of interactions man	irested between specific techi	lical factors with		
iimitea imp	act on wider issues;				
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Approving Officer: EL Nxumalo ned by operational contex resources, facilities, standar d consequences that are loca t is not limited to design; plan of materials, components, or construction; engineering ect management; research, d his item, a specifically-define nore of the following character	RK REGULATIONS Next Review Date: at, defined work package, rds and codes and applicable ally important but generally r nning; investigation and prot , systems or processes; i operations; maintenance development and commerciae	ECSA Page 11 of 55 time, finance, e laws; not far reaching; olem resolution; mplementation, e; closure or alisation.
Approving Officer: EL Nxumalo ined by operational contex resources, facilities, standar d consequences that are loca t is not limited to design; plar of materials, components, or construction; engineering ect management; research, d nis item, a specifically-define nore of the following character	Next Review Date: tt, defined work package, rds and codes and applicable ally important but generally r nning; investigation and prot , systems or processes; i operations; maintenance development and commercia	Page 11 of 55 time, finance, e laws; not far reaching; olem resolution; mplementation, e; closure or alisation.
ned by operational contex resources, facilities, standar d consequences that are loca t is not limited to design; plar of materials, components, or construction; engineering ect management; research, d nis item, a specifically-define nore of the following characte	t, defined work package, rds and codes and applicable ally important but generally r nning; investigation and prot systems or processes; i operations; maintenance development and commercia	time, finance, e laws; not far reaching; olem resolution; mplementation, e; closure or alisation.
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or construction; engineering ect management; research, c nis item, a specifically-define nore of the following characte	operations; maintenance development and commercia ed engineering activity mear	e; closure or alisation.
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nis item, a specifically-define nore of the following characte	ed engineering activity mear	
nore of the following characte		ns an activity or
	eristics:	
the specific practice area	is defined by specific tech	niques applied,
opting new specific technique	es into current narrow practi	ce;
rea is located within a wider	r, complex context, with spe	cifically-defined
onships with other parties an	d disciplines;	
olves specific familiar resour	rces, including people, mon	ey, equipment,
technologies;		
olution of interactions manife on wider issues;	ested between specific techn	ical factors with
ned by operational contex	t, defined work package,	time, finance,
resources, facilities, standar	rds and codes and applicable	e laws;
d consequences that are loca	ally important but are specifi	cally-defined;
ut is not limited to: planning	ng; investigation and prop	iem resolution;
aintenance project manager	is, systems or processes	s, engineering
amenance, project manager		
is Notice, a professional eng	ineer is expected to demons	strate and apply
es referred to in Table 1 of ite	em 4 at the complex level de	escribed in sub-
his Notice, a professional ei	ngineering technologist and	a professional
is expected to demonstrate a	and apply the core competer	cies referred to
t the broadly-defined level de	escribed in sub-items (3) and	d (6).
	technologies; olution of interactions manife on wider issues; ned by operational contex resources, facilities, standa d consequences that are loc ut is not limited to: planni of materials, component aintenance, project manager is Notice, a professional eng s referred to in Table 1 of its his Notice, a professional e is expected to demonstrate a t the broadly-defined level de	technologies; plution of interactions manifested between specific techn on wider issues; ned by operational context, defined work package, resources, facilities, standards and codes and applicabl d consequences that are locally important but are specifi ut is not limited to: planning; investigation and prob of materials, components, systems or processes aintenance, project management, development and com is Notice, a professional engineer is expected to demons as referred to in Table 1 of item 4 at the complex level de his Notice, a professional engineering technologist and is expected to demonstrate and apply the core competer t the broadly-defined level described in sub-items (3) and

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(12)For the purpose of this Notice, a professional engineering technician is expected to demonstrate and apply the core competencies referred to in Table 1 of item 4 at the well-defined level described in sub- items (4) and (7).

(13)For the purpose of this Notice, a specified category practitioner is expected to demonstrate and apply the core competencies referred to in Table 1 of item 4 at the specifically-defined level described in sub-items

(5) and (9).

(14)ECSA must develop guidelines using the complex, broadly-defined, well-defined and specifically-defined criteria contemplated in this item, to enable a client or employer to establish which category of registered person is required to perform the work of a specific nature.

CORE COMPETENCIES REQUIRED TO PERFORM IDENTIFIED ENGINEERING WORK

- 4 (1) A person who performs any identified engineering work in a particular engineering discipline must, in addition to any other requirement contemplated in the Engineering Profession Act-
 - (a) be suitably qualified;
 - (b) be registered by ECSA in the appropriate category applicable to the level of service performed; and
 - (c) possess the necessary core competency in the competency areas referred to in this item to perform such core service as a professional engineer, professional engineering technologist, professional certificated engineer, professional engineering technician or a specified category practitioner.
- (2) For the purpose of sub-item (1) "suitably qualified" means being in possession of a qualification that is recognised or accredited by ECSA for purposes of registering a person in any of the categories referred to in section 18(1)(a), (b) and (c) of the Engineering Profession Act.
- (3) The competency areas referred to in sub-item (1)(c) for a professional engineer, professional engineering technologist, professional certificated engineer, professional engineering technician and a specified category practitioner are:

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IDENTIFICATIO	N OF ENGINEERING WOI	RK REGULATIONS	ECSA
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(a) Define, inves	stigate and analyse engineeri	ng problems;	
(b) design or de	velop solutions to engineering	g problems;	
(c)comprehend	and apply engineering, tech	nological, technical and spe	ecific knowledge
in the practic	e area;		
(d)manage part	or all of one or more enginee	ering activities;	
(e)communicate	e clearly with others in the co	urse of the engineering activ	rity;
(f) recognise	and address, if applicable	e, the foreseeable social	, cultural and
environment	al impact of engineering activ	ities generally;	
(g)meet all lega	l and regulatory requirements	and protect the health and s	afety of persons
in the course	of his or her engineering act	ivity;	
(h)conduct eng	neering activities ethically;		
(i) exercise sou	nd judgement in the course o	f engineering activities;	
(j) be responsib and	le for making decisions on pa	rt or all of one or more engin	eering activities;
(k) undertake p	orofessional development or	independent learning activi	ties sufficient to
maintain and	l extend his or her competend	ce.	
(4) The core competend	ties referred to in sub-item (1)	(c) that a person registered a	as a professional
engineer, professio	nal engineering technologis	st, certificated engineer a	nd professional
engineering technic	ian or specified category p	ractitioner must possess w	hen he or she
performs any core	service in a particular engine	ering discipline referred to	in item 5 are as
indicated by the con	npetency area in Table 1 belo	W.	
(5) The purpose of a c category of registrat	competency area is to limit t ion.	he applicable knowledge re	quired for each
(6) The core competen	cies must be assessed by ι	itilising the competency ind	icators for each
competency area re	ferred to in Table 2 below.		
(7) The competency ir	ndicators in Table 2 below	are only typifying and oth	ner competency
indicators may be u	used provided such other co	mpetency indicators are cle	ear indicators of
competence			
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IDENTIFICATION OF ENGINEERING WORK REGULATIONS ECCL Complier: Approving Officer: Next Review Date: Page 14 of 55 Table 1: Competency area required of a person registered as a professional engineer, professional engineering technologist, engineering technologist, and a specified category practitioner to perform the core services Page 14 of 55 Table 1: Competency area required of a person registered as a professional engineering technologist, and a specified category practitioner to perform the core services Page 14 of 55 Professional Engineering technologist and a specified category practitioner to perform the core services Demonstration of Competence Competence Professional Engineering technologist and Professional Engineering technologist, and Professional engineering techonostratend with complex engineering technologist, and Professi	Dentrification Dentrification Dentrification Complier: Approving Officer: Next Review Date: Page 14.015 Tornsing interview ELuxumalo Page 14.015 Page 14.015 Tornsing interview Eluxumalo Eluxumalo Eluxumalo	IDENTIFICATION OF ENGINEERING WORK REGULATIONS ECSA Complier: Approving Officer: Next Review Date: Page 14 0.55 Total Mishali Approving Officer: Next Review Date: Page 14 0.55 Total Mishali Approving Officer: Next Review Date: Page 14 0.55 Total Mishali Approving Officer: Next Review Date: Page 14 0.55 Total Mishali Ethiologist and a specified category practitioner to perform the core services and the monologist and protessional regineering technologist, and Protessional Engineering	1	Document No.:	Revision No.:	Effective Date:	
Compler: Approving Officer: Next Review Date: Page 14 of 55 Table 1: Competency areas required of a person registered as a professional engineering technician and a specified category practitioner to perform the core services Page 14 of 55 Table 1: Competency areas required of a person registered as a professional engineering technician and a specified category practitioner to perform the core services Page 14 of 55 Professional Engineering technician and a specified category practitioner to perform the core services Demonstration of competence Demonstration of competence Demonstration of competence Professional Engineering technician and a specified category practitioner to performance of the competence Demonstration of competence Demonstration of competence Demonstration of competence 2. Demonstration of competence 2. Demonstration of competence 2. Demonstration of competence Demonstration of competence Demonstration of competence 2. Demonstration of competence 2. Demonstration of competence 2. Demonstration of competence 2. Demonstration of competence 2. Demonstration of competence 2. Demonstration of competence 2. Demonstration of competence 2. Demonstration of competence 2. Demonstration of competence 2. Demonstration of competence 2. Demonstration of competence 2. Demonstration of competence	Compiler: Approving Officer: Next Review Date: Page 14 of 55 Table 1: Compatency areas registered as a professional engineering technician and a person registered as a professional engineering technician and a person registered as a professional engineering technician and a person registered as a professional engineering technician and a person registered as a professional engineering technician and a person registered as a professional engineering technician and a person registered as a professional engineering technician and a person registered Engineer Page 14 of 55 Professional Engineer Professional Engineering technician and a person registered Engineering Technician Engintemana Engineering Technician Engineering Technician	Compiler: Approving Officer: Next Review Date: Page 14 of 55 Table 1: Competency areas required of a person registered as a professional engineering technologist, certificated technologist, certificated technologist, cer		IDENTIFIC	cation of Engineering M	VORK REGULATIONS	E C S A
Table 1: Competency areas required of a person registered as a professional engineering technologist, engineering technologist, and a specified category practitioner to perform the core services Professional Engineering technician Professional Engineering technician Professional Engineering technician Professional Engineering technologist and Professional Engineering activities, and professional Engineering activities, and professional Engineering activities, and professional Engineering activities, and analytice and profesion and profesind and and profesion and profesion and profe	Table 1: Competency areas required of a person registered as a professional engineer, professional engineer, professional engineer, professional engineer, professional engineer, professional Engineering Enclinologist, certificated Professional Engineer Professional Engineering Professional Engineering Specified Caeboory Practition Professional Engineering Professional Engineering Professional Engineering Specified Caeboory Practition Professional Engineering Professional Engineering Professional Engineering Specified Caeboory Practition Competence Certificial Engineering Professional Engineering Specified Caeboory Practition Competence Competence 2. Demonstration of Competence 2. Demonstration of Competence 2. Demonstration of Competence Competence must be demonstrated within Specified Engineering 2. Demonstration of Competence 2. Demonstration of Competence Competence must be demonstrated within Specified Caeboory Practition 2. Demonstration of Competence 2. Demonstration of Competence Competence must be demonstrated within Specified Caeboory Practition 2. Demonstration of Competence 2. Demonstration of Competence Competency assa defined in the applicated performance of the specified in the applicated performance of the specified in the applicated performance of the specified in the applicated per	Table 1: Competency areas required of a person registered as a professional engineering dechnologist, certificated engineering technologist, and a specified category practitioner to perform the core services. Professional Engineering technologist, and a specified category practitioner to perform the core services. Specified Category Practitioner operation with the core services. Professional Engineering technologist and a specified category practitioner to perform the core services. Specified Category Practition area operation area operation area operation. Professional Engineering technologist and Professional Engineering area operation area of the performance of the competence area defined technologist and Profession area operation area of the competence area of the competence area operation area of the competence area operat		Compiler: MB Mtshali	Approving Officer: EL Nxumalo	Next Review Date:	Page 14 of 55
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	Level Descriptor: Complex engineering engineering engineering engineering engineering problems have the characteristics indicated in item 3(2) above. Level Descriptor: Specifically-defined engineering engineering engineering engineering engineering engineering problems have the characteristics indicated in item 3(3) above. in item 3(2) above. in item 3(2) above. in item 3(3) above. in item 3(4) above.	Level Descriptor: Complex engineering engineering in item 3(2) above. Level Descriptor: Broadly-defined engineering in item 3(3) above. Level Descriptor: Complex engineering in item 3(2) above. Level Descriptor: Bescriptor: Specifically-defined engineering in item 3(3) above.	Competence Area 1: Define, investigate and ar engineering problems.	nalyse complex D	competence Area 1: Define, investigate and analyse roadly-defined engineering problems.	Competence Area 1: Define, investigate and analyse well-defined engineering problems	Competence Area 1: Define, investigate and analyse specifically- defined engineering problems (tasks)
Level Descriptor: Complex engineering Level Descriptor: Stronglow <			Level Descriptor: <i>Comp</i> problems have the chara in item 3(2) above.	olex engineering Lu Indicated en Indicated cd	evel Descriptor: Broadly-defined ngineering problems have the haracteristics indicated in item 3(3) above.	Level Descriptor: Well-defined engineeri problems have the characteristics indicated in item 3(4) above.	g Level Descriptor: Specifically-defined engineering problems have the characteristics indicated initem 3(5) above.

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ME ME	mpiler: 3 Mtshali	Approving Officer: EL Nxumalo	Next Review Date:	Page 15 of 55
Range Statement: The proble design of a component, syster a recommendation of the reme problematic situation.	m may be the n or process or sdy to a	Range Statement: The problem may be a design requirement, an applied R&D requirement or a problematic situation in an existing component, system or process. The problem is one amenable to solution by technologies known. This competency area is concerned with the understanding of a problem: competency area 2 is concerned with the solution.	Range Statement: The problem may be part of a larger engineering activity or may stand alone. The design problem is amenable to solution by established techniques practiced regularly. This competency area is concerned with the understanding of a problem: competency area 2 is concerned with the solution .	Range Statement: The problem (task) may be part of a larger engineering activity or may be stand alone. The design (planning) problem is amenable to solution 1 by established specific techniques practiced regularly. This competency area is concerned with thel understanding of a problem: competency area 2 is concerned with the solution.
rofessional Engineer		Professional Engineering Technologist and Professional Certificated Engineer	Professional Engineering Technician	Specified Category Practitioner
Competency Area 2: Design or develop solutions to complex engineering problem:	- 9	Competency Area 2: Design or develop solutions to broadly-defined engineering problems	Competency Area 2: Design or develop solutions to well-defined engineering problems	Competency Area 2: Design or develop (plan) solutions to specifically- defined engineering problems (tasks).
ange Statement: The solul e design of a componen ocess or a recommendation a problematic situation.	ions may be t, system or of the remedy	Range Statement: Solutions are those enabled by the technologies in the broadly-defined practice area.	Range Statement: The solution is amenable to established methods, techniques or procedures within the well-defined practice area.	Range Statement: The solution conforms to specific established methods, techniques or procedures within the specifically-defined practice area.
ompetency Area 3:		Competency Area 3:	Competency Area 3:	Competency Area 3:
omprehend and apply advanc iowledge: principles, specialis risolictional and local knowled,	ed tt knowledge, ge	Comprehend and apply advanced knowledge embodied in widely accepted and applied engineering procedures processes, systems or methodologies and those specific to the jurisdiction in wich he or she practices	Comprehend and apply knowledge embodied in established engineering practices and knowledge specific to the jurisdiction in which he or she practices	Comprehend and apply knowledge embodied in established specific engineering practices and knowledge specific to the field in which he or she practices
ange Statement: Applicab cludes:	le knowledge donth in tho	Range Statement: Applicable knowledge includes:	Range Statement: Applicable knowledge includes:	Range Statement: Applicable knowledge includes:
) specialist knowledge has actice area and is underp ndamental knowledge of al	inned by the n enaineerina	(a) recritionogical knowledge utat is well established and applicable to the practice area irrespective of location supplemented by	(a) recrimical knowledge marts applicable to the practice area irrespective of location, supplemented by locally relevant knowledge.	 (a) recimization weage that is applicable to the specific practice area irrespective of location, supplemented by locally relevant knowledge for
scipline or cross disciplinary a ndamentals-based, first princ	irea allowing a siple analytical	locally relevant knowledge, for example, established properties of local materials.	for example established properties of local materials	example established properties of local materials.
 proach building models as re- A working knowledge sciplines (engineering and oth amwork. 	quired of interacting er) to underpin	Emerging technologies are adopted from form (b) A working knowledge of interacting disciplines (engineering and other) to underpin team work.	(b) A working knowledge of interacting disciplines. Codified knowledge in related areas: financial, statutory, safety, management	(b) A working knowledge of interacting disciplines. Codified knowledge in related areas: financ ial statutory, safety, management.

IDEN	TIFICATION OF ENGINE		ORK REGULATIONS	ECSA
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C) Jurisdictional knowledge includes lega ind regulatory requirements as well as locally elevant codes of practice, as required for ractice area : law of contract, contract diministration, health and safety administration, releated property, quality anagement, risk management, maintenance ranagement or construction management.	 (c) Jurisdictional knowledge incluing tregulatory requirements as we relevant codes of practice, as practice area: law of contraing process and mistration, health an environmental, intellectual process management, regulation, project to construction management 	des legal and III as locally required for tot, contract d safety, perty, quality maintenance management	(c) Jurisdictional knowledge includes legal a regulatory requirements as well as prescrib. codes of practice	<pre>nd (c) Jurisdictional knowledge includes legal and regulatory requirements as well as prescribed codes of practice.</pre>
Professional Engineer	Professional Engineering Technologist Professional Certifica Engineer		Professional Engineering Technician	Specified Category Practitioner
ompetency Area 4: lanage part or all of one or more complex ngineering activities.	Competency Area 4: Manage part or all of one or moi defined engineering activities.	re broadly- 6.	ompetency Area 4: anage part or all of one or more well-defined gineering activities	Competency Area 4: Manage partor all of one or more specifically-defined engineering activities
Competency Area 5: Communicate clearly with others in the course of his or her engineering activities	Competency Area 5: Communicate clearly with others course of his or her broadly-defin engineering activities.	in the eed	Competency Area 5: Communicate clearly with others in the course of his or her well-defined ngineering activities	Competency Area 5: Communicate clearly with others in the course of his or her specifically-defined engineering activities
Range Statement: Management and communication in complex engineering involves: • Planning activities; • Organising activities and • Controlling activities and • Communication relates to technical aspects and wider impacts of professional work. Audience includes peers, other disciplines, client and stakeholders audiences. Appropriate modes of communication must be selected.	Range Statement: Managemer and communication in broadly- defined engineering involves: Planning activities; Organising activities; Leading activities and Controlling activities and Controlling activities and Communication relates to bechnit and wider impacts of professiona Audience includes peers, other d client and stake- holders audienc Appropriate modes of communic be selected. The engineering tecl expected to perform the communic be selected to perform the communic protions reliably and repeatedly.	tt	 Aange Statement: Management and communication in well-lefined engineering involves: Planning activities; Organising activities; Leading activities and Controlling activities and Controlling activities. Communication relates to technical spects and wider impacts of professional vork. Audience includes peers, other lisciplines. Appropriate modes of fommunication must be selected. The inglineering Technical is expected to erform the communication functions siliably and repeatedly.	Range Statement: Management and communication in specifically-defined engineering involves: Planning activities Organising activities Corganising activities Implementing activities Implementing activities Implementing activities Implementing activities Controlling activities Implementing activities Communication relates to technical aspects and wider impacts of work. Audience includes peers, other disciplines. client and stake- holders audiences. Appropriate modes of communication mustbe selected. The Specified Category practitioner is expected to perform the communication functions reliably and repeatedly

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Competency Area 6: Recognise and address th reasonably foreseeable sou and environmental effects o engineering activities.	e cial, cultural of complex	Competency Area 6: Recognise and address the foreseeable social, cultural and environmental effects of broadly- defined engineering activities generally.	Competency Area 6: Recognise the foreseeable social, cultural and environmental effects of well-defined engineering activities generally	Competency Area 6: Recognise the foreseeable social, cultural and environmental effects of specifically-defined engineering activities generally
Competency Area 7: Meet all legal and regulatoi requirements and protect t and safety of persons in thi- his or her complex enginee activities.	ry the health e course of aring	Competency Area 7: Meet all legal and regulatory requirements and protect the health and safety of persons in the course of his or her broadly-defined engineering activities.	Competency Area 7: Meet all legal and regulatory requirements and protect the health and safety of persons in the course of his or her well-defined engineering activities.	Competency Area 7: Meet all legal and regulatory requirements and protect the health and safety of persons in the course of his or her specifically-defined engineering activities.
ProfessionalEngi	neer	Professional Engineering Technologist and Professional Certificated Engineer	Professional Engineering Technician	Specified Category Practitioner
 Range Statement: Impacted undirect, Impacted undirect, imit and long-term effects englinearing solutions; Application of principle sustainability; Regulatory requirementex generally applicable; Persons whose health are to be protected are and outside the workpl 	ts and regulatory of ss of and are and safety ace.	 Range Statement: Impacts and regulatory requirements include: Requirements include both explicit regulated factors and those that arise in the course of particular work; Impacts considered extend over the lifecycle of the project and include the consequences of the fifecycle of the project and include fifecycle of the project and include the consequences of the fifecy to be considered include direct and indirect, immediate and long-term related to the direct and sustainable materials, components and systems; Regulatory requirements are explicit for the context in general; Persons whose health and safety are to be protected are both inside and outside the workplace. 	 Range Statement: Impacts and regulatory requirements include: Impacts to be considered are generally those identified within the generally those identified within the established methods, techniques or procedures used in the practice area; Regulatory requirements are prescribed; Apply prescribed risk management strategies; Apply prescribed risk management strategies; Prescribed safe and sustainable methods used are defined; Prescribed safe and sustainable methods used are both inside and outside the workplace. 	 Range Statement: Impacts and regulatory requirements include: Impacts to be considered are generally those identified within the established methods, techniques or procedures used in the specific practice area; Regulatory requirements are prescribed; Apply prescribed risk management strategies Effects to be considered and methods used are defined; Prescribed safe and sustainable materials, components and systems; Prescribed are bedith and safety are to be protected are both inside and outside the workplace.

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Competency Area 8: Conduct engineering activiti	es ethically Co	mpetency Area 8: nduct engineering activities ethically	Competency Area 8: Conduct engineering activities	s ethically	Competency Area 8: Conduct engineering activities ethically
competency Area 9: exercise sound judgement omplex engineering activiti	in the course of Ex	mpetency Area 9: arcise sound judgement in the course of adly- defined engineering activities.	Competency Area 9: Exercise sound judgement ir well- defined engineering activ	n the course of vities	Competency Area 9: Exercise sound judgement in the course specifically-defined engineering activities

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	IDENTIFICA	tion of Engineering W	ORK REGULATIONS	C S A
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Professional Engineer	Prof. Tech Profi	essional Engineering mologist and essional Certificated meer	Professional Engineering Technician	Specified Category Practitioner
ange Statement: Situations udgement must be applied involve etween wide- ranging or conflictin, agineering or other issues. Jud ecision making involves: taking diverse, wide ranging into account; or significant consequences in contexts; or wide ranges of interested ar parties with widely varying nee	in which Rang interactions both v g technical, their- igement in Judge risk factors t a range of a a range of e eds.	e Statement: Judgement is expected within the application of technologies, in wider impacts and when dealing with ices to other disciplines and technologies. ment in decision making involves : aking several risk factors into accountor ignificant consequences in technology pplication and related contexts, or application and related contexts, or anges of Interested and affected parties with widely varying needs.	 Range Statement: Judgement is expected both within the application of methods techniques and procedures and in assessing their immediate impacts. Judgement i decision making involves: Judgement i decision making involves: taking involves: and processing the factors integration account some of which may be ill defined; or consequences are in the immediat work context; or identified set of interested an affected parties with defined need to be taken into account. 	 Range Statement: Judgement is expected both within the application of excepted both within the application of category specific methods, techniques and specific procedures and in assessing their immediate impacts. Judgement in decision making involves: atking specific category risk factors into account some of which may be ill-defined; or consequences are in the immediate work context; or consequences are in the immediate work context; or
competency Area 10: te responsible for making decision: all of complex engineering activities	s on part or Be res all of c activiti	etency Area 10: ponsible for making decisions on part or one or more broadly-defined engineering ies	Competency Area 10: Be responsible for making decisions on part o all of all of one or more well-define engineering activities.	Competency Area 10: Be responsible for making decisions on part or all of one or more specifically-defined engineering activities
tange Statement: Responsibility or competency areas of significant ine or more complex engineering a	y exercised Rang t parts of a discha activity broad	e Statement: Responsibility must be arged for significant parts of one or more ly-defined engineering activity.	Range Statement: Responsibility must by discharged for significant parts of a one o more well-defined engineering activity	Range Statement: Responsibility must be discharged for significant parts of one or more specifically-defined engineering activity.
Note 1: While actual responsibilit work may not have been taken, d statutory or other requirements, f Professional Engineer to take the responsibility, evidence must be s responsible recommendations an lucigement.	ty for the Note tue to work for a engine for a responsion of he/shi	 Demonstrating responsibility would under the supervision of a competent aering practitioner who takes the actual nsibility but is expected to perform as if a is in a responsible position 	Note 1: Demonstrating responsibility would by under supervision of a competent engineerin, practitioner but is expected to perform as he/she is in a responsible position.	 Note 1: Responsible for the evaluation of work output in a supervisory capacity .

IDENTIFICATION OF ENGINEERING WORK REGULATIONS E Compiler: Approving Officer: Next Review Date: Page Compiler: Approving Officer: Next Review Date: Page Professional Engineer Professional Engineering Professional Engineering Professional Engineering Professional Engineer Professional Certificated Professional Engineering Professional Engineering Professional Engineering Competency Area 11: Co	WORK REGULATIONS ECSSA Image: Specified Category Page 20 of 55 Image: Specified Category Professional Engineering Image: Specified Category Practitioner Technologist Image: Specified Category Image: Specified Category Image: Specified Category
Compiler: Approving Officer: Next Review Date: Page MB Mtshali EL Nxumalo Professional Engineering Professional Engineeri	Image Next Review Date: Page 20 of 55 Professional Engineering Specified Category Competency Area 11: Competency Area 11: Competency Area 11: Undertake independent learning activities Undertake independent learning activities Undertake independent learning activities Indertake independent learning ac
Professional Engineer Professional Engineering Professional Engineering Spendersional Engineering Spenders	Professional EngineeringSpecified CategoryTechnicianSpecified CategoryTechnicianCompetency Area 11:Competency Area 11:Competency Area 11:Competency Area 11:Undentake independent learning activitiesUndertake independent learning activitiesUndentake independent learning activitiesCompetence competenceCompetenceRange Statement: Professional development• Taking ownership of own deve
Competency Area 11: Commetency Area 11: Commet	Competency Area 11:Competency Area 11:SUndertake independent learning activitiesundertake independent to maintain and extend his or hercompetencecompetencecompetencein Range Statement: Professional developmentTaking ownership of own development
sufficient to maintain and extend his or her sufficient to maintain and extend his or her sufficient to maintain and extend his or her sufficiented competence competence competence	t Range Statement: Professional development Range Statement: Development in involves:
Range Statement: Professional development Range Statement: Professional development Range Statement: Professional development Ran involves:	
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able 2: The competency indicators to determine the competency in each of the competency areas required of a person registered as a ractitioner Specified and a specified indicators to determine the competency areas required of a person registered as a ractitioner Professional engineering technologist and Professional Engineering problems. Specified Ca Competency Area 1: Delme, Investigate and anyse of competency Area 1: Delme, Investigate and anyses of competency Area 1: Delme, Investigate and anyses of compresenting problems. Competency Area 1: Delme, Investigate and anyses of competency Area 1: Delme, Investig	Compiler: MB Mtshali	Approving Officer: EL Nxumalo	Next Review Date:	Page 21 of 55	
Frofessional EngineerProfessional Engineering TechnicianProfessional Engineering TechnicianProfessional Engineering TechnicianProfessional Engineering TechnicianProfessional Engineering TechnicianSpecified CaCompetency Area 1: Define, investigate and analyse complexCompetency Area 1: 	able 2: The competency indicators to dete rofessional engineer, professional engine ractitioner	rmine the competency in each ering technologist, certificated	l of the competency areas required engineer, professional engineerin	d of a person register g technician and a sp	ed as a ecified category
Competency Area 1: Define, investigate and analyse complexCompetency Area 1: Define, investigate and analyse complexCompetency Area 1: Define, investigate and analyse complexCompetency Area 1: Define, investigate and analyse with defined engineering problemsCompetency Area 1: Define, investigate and analyse with defined engineering problemsCompetency Area 1: Define, investigate and analyse with defined engineering problemsCompetency Area 1: Define, investigate and analyse of complex or problemsCompetency Indicator: A structured analysis of tonaby-defined problemsCompetency Indicator: A structured analysis of well-defined problemsCompetency Indicator: A structured analysis of well-defined by the following performances is 	Professional Engineer Profe Techr Certif	ssional Engineering nologist and Professional icated Engineer	Professional Engineering Technician	Speci	fied Category
Competency Indicator: A creative, systematic analysis of complex or complex or complex or biens systematic analysis of complex or complex or complex or biens systematic analysis of complex or	Competency Area 1: Competency Area 2: Define, investigate and analyse complex define engineering problems.	petency Area 1: s, investigate and analyse broadly- d engineering problems.	Competency Area 1: Define, investigate and analyse well- defined engineering problems	Competency Area 1 Define, investigate ar defined engineering	l: id analyse <i>specifically-</i> oroblems (tasks)
	Competency Indicator: A creative, systematic analysis of complex problems typified by the following performances is expected: Commany systematic analysis of complex sypefie expected: 1. Define, investigate or analyse complex engineering problems; engineering problems; engineering problems; engineering problems; engineering problems; engineering problems; engineering problems; engineering problems; engineering problems; i. Collecting; ii. Collecting; iii. Evaluatinginformation; iii. Evaluatinginformation; problems : Useconceptualisation, abstraction, methods both mathematical and non- methods both mathematical methods both mathematical methods both mathematical methods both mathematical methods both mathematical iii. Evaluate result of analysis, using problems : constraints, premises; using pudgement; from the analysis.	efency Indicator: A structured sis of broadly-defined problems d by the following performances is ted: lentify and formulate the problem greeing with client on a problem argement. Analyse and evaluate formation. se conceptualisation, abstraction ad conceptualisation, abstraction mendeling. Justify judgement and sade. Express understanding merging from analysis.	Competency Indicator: A structured analysis of well-defined problems typified by the following performances is expected: 1. benify and interpret the activity agreeing with client on a problem statement. Analyse and clarify information, drawings, codes, procedures, etc. Revise and agree on acceptance criteria if necessary.	Competency Indicat specifically- defin, performances is expectioned the with the client. 2. Analyse and drawings, codes,	or: An analysis of ad engineering ed by the following ted: activity agreeing clarify information, procedures, etc.

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Professional Engi	neer Prof Tec	fessional Engineering hnologist and Professional tificated Engineer	Professional Engineering Technician	Specified Category Practitioner
Competency Area 2: Design or develop solutions to complex engineering problems	C or D es defi	<pre>mpetency Area 2: sign or develop solutions to broadly- ned engineering problems</pre>	Competency Area 2: Design or develop solutions to well-defined engineering problems.	Competency Area 2: Design or develop (plan) solutions to specifically- defined engineering problems (tasks).
 competency Indicator: This competency indivisity demonstrated after a prinalysity asystematically to synthesis olution to a complex problem, typi allowing performances is expected. Analyse the design' planning, requirements specification: Synthesise a range of potent solutions to problem or approdeveloping a solution; Synthesise a range of potent solutions to problem or approdeveloping a solution; Evaluate the potential approsing against requirements, includiand in diama diama teasoned arguments proposal for preferred option. Produce design documentatic implementation. 	thency area con oblem area area 1. prol area area filed by the synn filed by the synn filed by the synn filed by the synn tailed 1. brow tailed by the synn tailed by	upetency Indicator: This competency a is normally demonstrated after a blem analysis as defined in competency thesise a solution to a adiy-defined problem, typified by the wing ormances is expected: Analyse the requirement drawing up a design specification. Synthesise potential solutions or approaches and evaluate; Select the best complete solution and develop fully. Present reasoned arguments and proposal. Agree with client and produce design documentation for implementation;	Competency Indicator: This competency area is normally demonstrated after a problem analysis as defined in competency area 1.Working systematically to synthesise a solution to a well- defined problem, typfifed by the following performances is expected: 1. Develop and analyse alternative approaches to meeting the problem specification. Check impacts; 2. Select the best complete solution, seeking advice on aspects of the proposal or design proposal or design process that fall outside established practice or standards. Agree with client;	 Competency Indicator: This competency area is normally demonstrated after a problem (task) analysis as defined after a problem (task), typified by the following performances is expected: Develop and analyse alternative approaches to do the task. Check impacts: Select the best complete plan, seeking advice on aspects of the proposal or plan that fall outside exitabilished practice or standards. Agree with client;
ompetency Area 3: omprehend and apply advanced inciples, specialist knowledge , ji nd local knowledge.	knowledge: Com urisdictional embc engin engin speci	petency Area 3: rehend and apply the knowledge died in widely accepted and applied inering procedures, processes, systems sthodologies and he/she practices those fic to the jurisdiction in which.	Competency Area 3: Comprehend and apply knowledge embodied in established engineering practices and knowledge specific to the jurisdiction in which he/she practices	Competency Area 3: Comprehend and apply knowledge embodied in established specific engineering practices and knowledge specific to the field in which he/she practices.

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Profession	al Engineer	Professional Engineering Technologist and Professional Certificated Engineer	Professional Engineering Technician	Specified Cate
ompetency Indicator: ea is normally demons i design, investigation c Display mastery o engineering princi technologies in the Apply general engineering knowi analysis and provid Use a fundamentals- nantytical, approach required: Display a working kno interacting disciplin other) to underpin tes Apply related kn statutory, safety man	This competency strated in the course of operations. If understanding of ples, practice and practice area; and underpinning edge to support based, first principles i building models as wiedge of areas that of knowledge of stice area on wiedge of amwork; and wiedge of and	Competency Indicator: This competency area is normally demonstrated in the course of design, investigation or operations. 1. The through understanding and application of engineering principles to support analysis; 2. The use of specialised knowledge in an analytical approach and application of related knowledge in broadly-defined engineering activities	Competency Indicator: This competent area is normally demonstrated in the cours of design, investigation or operations. 1. The use of codified underpinnic educational knowledge in practical we defined activities; 2. The understanding of knowled expressed in well-defined procedure and techniques.	cy Competency Indicator: This c se area is normally demonstrated in th planning investigation or operation 1. The use of codified ur all specifically-defined engineerin, ge 2. The understanding of expressed in specifica procedures and techniques
ompetency Area 4: lanage part or all of or noineering activities	ne or more complex	Competency Area 4: Manage part or all of one or more broadly- defined encineering activities	Competency Area 4: Manage part or all of one or more well-define ennineering activities	Competency Area 4: ed Manage part or all of one or more s defined enoineering activities
 manuella providential profession profesin profession profession profession profesion profession profes	: The display of ocess management gineering activities and control complex s; elf; in a team ud/or work priorities, processes and/or dge of finance as it is dge of finance as it is dge of the conditions nitract and business	 Competency Indigator: The display of personal and work process management abilities are expected: 1. Manage broadly-defined engineering activities 2. Participate effectively in a team environment 3. Manage self-people, and/or work processes and/or resources; 4. Demonstrate knowledge of finance as it is applied to engineering 5. Demonstrate knowledge of the conditions and operations of contract; 6. Demonstrate the ability to establish and maintain professional and business relationships. 	Comparenty and the display comparenty and work process manageme abilities are expected 1. Manage self, work priorities, processes 2. Participate effectively in a tea environment	of Competency Indicator: The and personal and work process m abilities are expected: & 1. Manage self, work priorities, and resources; m 2. Participate effectively in environment.

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Professional Engineer Professi Technol Certifica	ional Engineering logist and Professional ated Engineer	Professional Engineering Technician	Specified Category
Competency Area 5: Communicate clearly with others in the course Communic Communicate clearly with others in the course Communic of his or her engineering activities of his or activities.	actor Area 5: actor Area 5: actor clearly with others in the course cate clearly with others in her broadly-defined engineering	Competency Area 5: Communicate clearly with others in the course of his or her well-defined engineering activities	Competency Area 5: Communicate clearly with others in the course of his or her specifically-defined engineering activities
 Competency Indicator: Demonstrates Competency Indicator: Demonstrates Scompetency Indicator: Demonstrates Scompetency Competency Compatibility Competency Composition Competency Competen	ncy Indicator: Demonstrates communication by: no clear, concise, effective, nically correct reports using a ture and style which meets munication objectives and dudience requirements; addience requirements; addience requirements; subjections, ensuring correct pretation; norlear instructions, ensuring correct pretation; appropriate language and nunciation aids, ensuring that age and other communication ers are overcome ing oral presentations using ing oral presentations using ing oral presentations using ing oral presentations using ing oral presentations using ing oral presentations using ing oral presentations using oral presentat	Competency Indicator: Demonstrates effective communication by: affective communication by: I. Writing clear, concise, effective, technically correct reports issuing clear instructions to subordinates and present point of view effectively and present point of view effectively	 Competency Indicator: Demonstrates effective communication by: Writing clear, concise, effective, technically correct reports. 2. Issuing clear instructions to subordinates and present point of view effectively.

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Professional Engine	e	Professional Technologist Certificated I	L Engineering t and Professional Engineer	Professional Engineering Technician	Specified Categ	lory
Competency Area 6: Recognise and addres foreseeable social, cultura effects of complex engines	s the reasonably il and environmental aring activities.	Competency A Recognise and a defined engine cultural and env	rea 6: address the foreseeable socia sering activities generally I ironmental effects of broadly- ring activities generally	Competency Area 6: Recognise the foreseeable social, cultural a environmental effects of well-defin engineering activities generally	Competency Area (and Recognise the fores, ned environmental effect engineering activities	: eeable social, cultural and ts of specifically-defined sgenerally
Competency Indicator: analysis and solution of pri analysis and solution of pri ldentifying interested and their expectation and social cultural factors 1 dentifying environme engineering activity; 4. Identifying sustainabil 5. Proposing and eval mitgate negative eff activity Communicating with	This competency ad in the course of oblems, by typically: and affected parties rs: between technical and environmental and environmental and environmental ity issues the ity issues to engineering stakeholders	 Competency In is normally displanad solution of random solution of random solution of random solution of random social and social factors; and social factors; and social factors; and social for the social factors; and social factors; and social factors; 6. Proposing activity; 6. Communice 	dicator: This competency area ayed in the course of analysis roblems, by typically: interested and affected parties xpectations; interactions between technical cultural and environmental environmental impacts of the 3 activity sustainability issues; and evaluating measures to gative effects of engineering ating with stakeholders	Competency Indicator: This competency an is normally displayed in the course of analy and solution of problems, by typically: 1. Identifying affected parties a environmental impacts of t engineering activity; 2. Proposing mitigating measures a communicating with stakeholders	rea Competency Indi sis area is normally di evaluating and plan environmental i environmental environmental 2. Proposing mi stakeholders	ator: This competency splayed in the course of ingtasks, by typically ted parties and mpacts of the twity; ugating measures with on measures with
Competency Area 7: Meet all legal and regulato protect the health and saf course of his or her ci activities.	ry requirements and ety of persons in the omplex engineering	Competency A Meet all legal an protect the healt course of hi engineering activ	rea 7: d regulatory requirements and th and safety of persons in the is or her broadly-defined vities.	Competency Area 7: Meet all legal and regulatory requirements a protect the health and safety of persons int prourse of his or her well-defined engineeri activities.	Competency Area 7 and Meet all legal and rey the protect the health an ing course of his or ing engineering activities	: gulatory requirements and id safety of persons in the her specifically-defined s.
 Competency Indicator: Identifying applicable health and safety ri- engineering activity; Identifying health and applicable for the eng 3. Assistance or awareto of safe and sus components and sys components and sys and identifying risk ar risk management stra- 	legal, regulatory and aquirements for the safety requirements jineering activity ass of the selection tanable materials, lems; ness of recognising d applying accepted itegies	Competency In 1. Identifyint and health a engineering 2. Identifying I applicable f 3. Assistance of safe componentt 4. Assistance and identify risk manage	dicator: a applicable legal, regulatory and safety requirements for the pactivity; health and safety requirements for the engineering activity for the engineering activity or awareness of the selection and sustainable materials, s and systems; or awareness of recognising ing risk and applying accepted ment strategies.	Competency Indicator: 1. Identifying applicable legal, regulatory a health and safety requirements for 1 engineering activity 2. Managing risks and use safe a sustainable materials, components a systems, seeking advice when necess:	and 1. Identifying appli the health and sat health and sat health and sat and 2. Managing rist sustainable ma ary systems, seekin	tor: cable legal, regulatory and cable legal, regulatory and ined engineering afor the ined engineering affe and is and use safe and iterials, components and terials, components and gadvice when necessary

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Professional Engin	eer	Professional Er Technologist an Certificated Eng	ıgineering id Professional jineer	Professional Engineering Technician	Specified Ca	tegory Practitioner
competency Area 8: conduct engineering acti competency Indicato pproach must be demc Knowledge of ECSA Cr Knowledge of ECSA Cr Member/active particif recognised VA; understanding of P structures/Network/Inte issues is expected, typi issues is expected, typi sissues is expected, typi sissues is expected, typi sissues is expected, typi affectac interest approach interest of those suitable priority; 5. Selecting and j that best resolv.	vities ethically r: A professional instrated at all times ode of Conduct; rofessional Society raction Sensitivity to the adoption of a to resolving these fied by: and their ible solution using the involved, accorded ustifying the solution es the dilemma	Competency Area a Conduct engineering Competency Ind Competency Ind Ecompetency Ind Knowledge of E i. Member/active p a recognised VA a recogn	8. activities ethically activities ethically icator: A professional monstrated at all times by: c:CSA Code of Conduct; articipation in activities of r Professional Society k/I nteraction Sensitivity to and the adoption of a pach to resolving these act to resolving these act solution solutions for the possible solution using the those involved, accorded by and justifying the solution esolves the dilemma	 Competency Area 8: Conduct engineering activities ethically Competency Indicator: Sensitivity to eth issues and the adoption of a system approach to resolving these issues is expec typified by: 1. Identifying ethical problems and affec parties and their interests; 2. Compliance with ECSA's Code of Cond 	Competency Arr Conduct enginee ical Competency Ind attc ispues and the ar eted approach to reso expected, typifier affected par uct. 2. Compliance uct. 2. Compliance	aa 8: ring activities ethically licator: Sensitivity to ethical loption of a systematic log these issues is hy of ethical problems and ties and their interests; with ECSA's Code of
competency Area 9: Exercise sound judgeme complex endineering activ	ent in the course of vities	Competency Area (Exercise sound jud	9: gement in the course of neering activities.	Competency Area 9: Exercise sound judgement in the course well- defined encineering activities	e of Exercise sound specifically-define	ea 9: judgement in the course o ed engineering activities
 Complexe rule and the angle angle	Anters. Expected by: expected by: al factors, some of be well-defined or interdependence interdependence attive importance of ences of actions n in the absence of full ce and knowledge	Considenting sequences in the sequence of th	Interim activities of the interim activities of the ad by: Exhibition of ad by: everal factors, some of or ot be well-defined or the interdependence and relative importance of tration in the absence of turation in the absence of tration in the absence of the every serience and knowledge berience and knowledge activities activities and knowledge activities activities and knowledge activities activitities activities activities activities activities activities a	Competency Indextry Exhibition judgement is expected by: 1. Considering a limited number of fac and their independence 2. Foreseing consequences of actio evaluating a situation in the absence o evidence	of competency judgement is exp tors 1. Considering the catego interrelated. evaluating a situ evidence	attenting accurate of the tent of tent

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Professional Engine	er	Professional E Technologist Certificated Er	Engineering and Professional noineer	Professional Engineering Technician	Specified Category
Competency Area 10: Be responsible for making all of complex engineering	decisions on part or activities.	Competency Are Be responsible for all of one or more activities	a 10: making decisions on part or broadly-defined engineering	Competency Area 10: Be responsible for making decisions on par all of all of one or more well-definengineering activities	Competency Area 10: or Be responsible for making decisions on pa ed all of one or more specifically-defi engineering activities
Competency Indicator: displayed by the following 1. Having due regard 1 environmental a development consider 2. Seeking advice fro authority on any mattr outside area of compe 3. Making decisions responsibility for one engineering activity	Responsibility is performance: to technical social, nd sustainable ation m a responsible er considered to be stence on and take on and take	Competency In displayed by the fe displayed by the fe environmenta environmenta development development authority on a outside area 3. Making de responsibility	dicator: Responsibility is llowing performance: regard to technical social, and sustainable consideration a responsible any matter considered to be of competence crisions on and take / for one or more broadly- neering activity	Competency Indicator: Responsibility displayed by the following performance Demonstrating a professional approach at times by applying theory to justify solutions Taking advice from a responsible authority any matter considered to be outside application any matter considered to be outside application and and ards and codes: Evaluating work output, revising as require and taking responsibility for this work output,	 competency Indicator: Responsibility displayed by the following performance: all 1. Demonstrating a professional approach at all times by applying on knowledge to justify actions; Die 2. Taking advice from a responsible authority on any matter considered to be outside applicable standards and codes 3. Evaluating work output, revising as required and taking as required and taking
Competency Area 11: Undertake professional de sufficient to maintain and competence	velopment activities extend his or her	Competency Area Undertake profess sufficient to main competence	a 11: sional development activities tain and extend his or her	Competency Area 11: Undertake independent learning activit sufficient to maintain and extend his or l competence	es Competency Area 11: Undertake independent learning activ ter sufficient to maintain and extend his or competence
Competency Indicator: managed by typically; 1. Planning own profes: strategy 2. Selecting appropri development activities 3. Keeping record development strategy 4. Displaying independen 5. Completing profession	Self-development sional development ate professional of professional and activities nt learning ability nal development	Competency In managed by typics 1. Planning own strategy professional (2. Keeping r development learning abilit	dicator: Self-development ally; n professional development selecting appropriate developmental activities ecord of professional displaying independent y	Competency Indicator: Self-developm managed by typicality: 1. Planning own professional developm strategy selecting appropri professional development activities 2. Keeping record of professional developm displaying independent learning ability	ant Competency Indicator: Self-developmen managed by typically ant 1. Planning own development strategy selecting appropriate development activities; ant 2. Keeping record of development displa- independent learning ability

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PERFORMANCE OF CORE SERVICE IN PRACTISE AREA

5 (1) Identified engineering work in any engineering discipline consists of core services in certain practise areas.

- (2) For the purposes of section 26(3)(a) of the Engineering Profession Act, work identified for persons registered in one of the categories in section 18(1)(a) or (c) of the Engineering Profession Act includes the core services for the practice areas referred to in in Items 6 to 15
- (3) The core services and practise areas listed in items 6 to 15 are not exhaustive and any similar activity that is undertaken in order to perform a core service in compliance with an agreement to provide engineering work in an engineering discipline which work is not identified in items 6 to 15 is deemed to be a core service identified in items 6 to 15.

IDENTIFIED ENGINEERING WORK IN AERONAUTICAL ENGINEERING DISCIPLINE

6 (1) The core services in the aeronautical engineering discipline consist of the analysis, planning, design and development, manufacture, construction, operation and maintenance of all types of flight vehicles including fixed wing aircraft, helicopters, sail planes, airships, spacecraft and missiles, based on engineering sciences underlying flight dynamics, aerospace structures and propulsion systems.

- (2) The core services in the aeronautical engineering discipline are performed in the following practise areas:
 - (a) Aircraft design;
 - (b) aircraft structures;
 - (c) aircraft propulsion systems;
 - (d) aerodynamics;
 - (e) avionics;
 - (f) aero-elasticity;
 - (g) stability and control;
 - (h) aircraft systems including hydraulic, pneumatic and avionic systems;
 - (i) wind tunnel testing;
 - U) flight testing;
 - (k) aircraft performance monitoring;

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	(I)	airport/airfield management; a	and	
	(m)	certification and safety progra	immes.	
IDENTIFI	ED ENG	INEERING WORK IN AGRIC	JLTURAL ENGINEERING D	DISCIPLINE
7	(1) The (core services in the agricultural	engineering discipline consis	st of the analysis,
planning,	design	and development, manufacture	e, construction, managemer	nt, operation and
maintenan	ice of ag	ricultural machinery, mechanis	ation, production and proces	ssing and natural
resource r	nanagen	nent through the application of e	engineering sciences.	
	(2) The o	core services in the agricultura	I engineering discipline are	performed in the
	follov	ving practise areas:		
	(a)	Agricultural energy engineerin	g;	
	(b)	agricultural renewable energy	engineering;	
	(c)	agricultural product processin	g engineering;	
	(d)	agricultural structures and fac	ilities engineering;	
	(e)	agricultural waste handling an	d management;	
	(f)	aquaculture engineering;		
	(g)	mechanisation engineering;		
	(h)	irrigation engineering;		
	(i)	hydrology and agricultural wat	ter use management;	
	U)	natural resources engineering	•	
	(k)	food engineering;		
	(I)	environmental engineering; ar	nd	
	(m)	rural infrastructure engineering	g	
IDENTIFI	ED ENG	INEERING WORK IN CHEMIC	CAL ENGINEERING DISCIP	PLINE
8 (1) The c	core services in the chemical e	ngineering discipline consist	of the analysis,
planning,	design a	nd development, manufacture,	construction, management,	operation and
maintenan	ice of ind	lustrial-scale processes to conv	vert raw and recycled materia	als to products
through cl	nemical a	and physical processes.		
(2) T	he core	services in the chemical engine	eering discipline are performe	d in the following
	practise	areas:		

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(b)	processes where chemical read	ctions present particular haz	ards;
(c)	processes involving advanced v	water treatment for potable	water;
(d)	advanced process control; and		
(e)	process simulation.		
IDENTIFIEI	D ENGINEERING WORK IN CIVIL I	ENGINEERING DISCIPLIN	E
9 (1)	The core services in the civil eng	gineering discipline consist	of the analysis,
planning, de	esign and development, manufactur	e, construction, manageme	nt, maintenance
and operation	on of works comprising –		
(a)	a structure such as a building, dam	, bridge, road, railway, runwa	ay or pipeline;
(b)	a transportation, water supply and t	treatment, drainage and sew	verage system;
(c)	the result of an operation such as dre	edging, earthworks and a geo	otechnical process;
(d)	waste disposal; and		
(e)	sea defenses and coastal protection	on; through the application of	of civil engineering
	sciences.		
(2)	The core services in the civil engine	ering discipline are perform	ed in the following
	practise areas:		
	a) Structural engineering work;		
	b) geotechnical engineering work;		
	c) transportation engineering work	• •	
	d) environmental engineering work	· · · · · · · · · · · · · · · · · · ·	
	e) hydraulic engineering work;		
	f) municipal engineering work.		
(3)	Structural engineering work is the	e buildings, dams bridges, r	roads, highways
	runways, harbours, railways, relatir	ng to the structural safety a	nd serviceability
	of both the temporary and perma	ment works associated with	n structures that
	provide shelter, carry loads or retai	n materials and fluids.	
(4)	Geotechnical engineering work is f	oundations, earthworks, exc	avations, ground
	improvement and geotechnical	processes subsurface in	voctigation and
		processes, subsurface in	vestigation and

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(5)	Transporta	tion engineering work i	s the transportation syst	ems, including roads,
	railways, v	vaterways, ports, harbo	urs, airports, and all as	sociated works such
	asyards,	docks, lighthouses, roll	ing stock, and traffic e	ngineering, geometric
	design- ho	rizontal curves, vertical	curves and sight distance	e.
(6)	Environment	tal engineering work is s	olid waste disposal, soil	conservation works,
	contaminate	d land remediation.		
(7)	Hydraulic eng	gineering work is hydra	aulic systems including	water resources and
	supply, pipeli	nes, canals, water treatm	ent and supply, stormwate	er and drainage works,
	sewerage sys	stems; sanitation, waste	disposal and coastal eng	ineering.
(8)	Municipal en	ngineering work is servi	ces such as water trea	atment and supply -
	demands, hy	draulic loading, storage	s (raw and treated wate	er), sewerage works,
	transport buil	ding services, and urb	an development as indica	ated above
utilising-	 a) electrical e b) electronic medical an c) computing, and control 	energy; devices, apparatus and id consumer products an , communication and so d of processos, through	control systems for indu d processes; and ftware for critical application	ustrial systems, bio-
	and inform	nation engineering science	ces.	
(2)	The core se	ervices in the electrical	engineering discipline a	re performed in the
	following pr	imary practise areas:		
á	a) Electrical p	oower engineering work;		
ł	o) electronic	engineering work;		
(c) telecommu	inications engineering wo	ork;	
0	d) computer a	and software engineering	g work.	

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(3)	Electrical power engineering work in	cludes the following practise	areas:
(a)	Conducting research and developir	ng new or improved theories	and methods
	related to electrical power engineeri	ng;	
(b)	advising on and designing power sta	ations and systems which gen	erate, transmit
	and distribute electrical power;		
(c)	specifying Instrumentation, measure monitoring and control of electrical systems:	ement and control of equip I generation , transmission <i>a</i>	oment for the and distribution
(d)	supervising, controlling, developing a of electrical generation, transmission	and monitoring the operation a on and distribution systems;	and maintenance
(e)	advising on and designing systems other equipment or electrical domes	for electrical motors, electric tic appliances;	al traction and
(f)	specifying electrical installation and and objects;	application in industrial and	other buildings
(g)	establishing control standards and pr of electrical generating and distribution	rocedures to monitor performation systems, motors and equip	ance and safety ment;
(h)	determining manufacturing metho maintenance and repair of existing e	ds for electrical systems electrical systems, motors an	as well as the id equipment;
(i)	design and development of electrica	al apparatus.	
(4)	Electronic engineering work includes	the following practise areas	:
(a)	Conducting research and developi related to electronics engineering;	ng new or improved theories	s and methods
(b)	advising on and designing electro conductors and systems;	onic devices or components,	circuits, semi-
(c)	specifying production or installation	on methods, materials and qu	uality standards
	and directing production or installat	ion work of electronic product	s and systems;
(d)	supervising, controlling, developi maintenance of electronic equipme	ng and monitoring the on the one of the one one of the	operation and
(e)	establishing control standards an	d procedures to ensure effici	ent functioning
(f)	organising and directing maintena	nce and repair of existing el	ectronic systems
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	and equipment;		
(g)	designing electronic circuits and	d components for use in fi	elds such as
	aeronautical guidance and propul control;	lsion control, acoustics or in	struments and
(h)	determining manufacturing metho maintenance and repair of existing	ods for electronic systems a electronic systems and equi	s well as the oment;
(i)	researching and advising on rac microwaves and other electronic e	dar, telemetry and remote o quipment;	control systems,
U)	designing and developing signal protection through appropriate choice of hard	ocessing algorithms and imple lware and software;	menting these
(k)	developing apparatus and procedu systems;	res to test electronic compone	ents, circuits and
(1)	designing, specifying and impleme processes;	nting Control and Instrumenta	tion of plant and
(m)	designing, specifying, control and plant and factories;	monitoring of equipment for fi	re and safety in
(n)	robotics and process control of ma	anufacturing plant;	
(o)	energy efficiency PV.		
(5) Te er sy as ar	elecommunications engineering wangineering encompassing the destems that carry out the transmiss relectrical or optical signals and the definition of the following practice and conclusion of the following practice and developsion of the following practice and the following practice and developsion of the following practice and developsion of the following practice and the following practice and developsion of the following practice and developsion of the following practice and the following practice and developsion of the following practice and the	ork is a broad specialisation esign, construction and ma ion, processing and storage ne control services based on reas:	n of electrical nagement of of information this capability
(a)	related to telecommunications engin	neering;	and methods
(b)	advising on and designing telecom equipment and distribution centres;	munications devices or comp	onents, systems,
(c)	specifying production or installati standards and directing production products and systems:	ion methods, materials, qual n or installation work of telec	ity and safety ommunications
(d)	supervising, controlling, develop maintenance of telecommunication	ing and monitoring the on systems. networks and equip	operation and oment;
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(e)	determining manufacturing methods	for telecommunication syste	ms as well as
	the maintenance and repair of exist	ting telecommunication system	ems, networks
	and equipment;		
(f)	organising and directing maintenand	ce and repair of existing tel	ecommunication
	systems, networks and equipment;		
(g)	researching and advising on telecom	nmunications equipment;	
(h)	planning and designing communicati	ons networks based on wire	d, fibre optical
	and wireless communication media;		
(i)	designing and developing signal	processing algorithms and	implementing
	these through appropriate choice of	hardware and software;	
(j)) designing telecommunications netw	vorks and radio and televisi	on distribution
	systems including both cable and ov	er the air.	
(6) C	Computer and software engineering w	ork includes the following p	ractice areas:
(a)	Conducting research and developing	g new or improved theories	and methods
	related to computer and software er	ngineering;	
(b)	advising on and designing computer	r-based systems or compon	ents, systems
	equipment, software and distribution	centres;	
(c)	specifying production or installation	n methods, materials, quali	ty and safety
	standards and directing production	or installation work of co	omputer-based
	products, software and systems;		
(d)	supervising, controlling, developing	g and monitoring the o	operation and
	maintenance of computer- based sys	stems, software, networks an	d equipment;
(e)	organizing and directing maintenand	ce and repair of existing co	omputer-based
	systems, programmes and equipmer	nt;	
(f)	researching and advising on comput	ter-based equipment and so	oftware;
(g)	planning and designing computer-ba	sed communications netwo	orks based on
	wired, fibre optical and wireless co	mmunication media and ult	ra-high speed
	data networks;		
(h)	system Analysis, designing and dev	eloping complex computer-b	based systems
	and implementing these through app	ropriate choice of hardware	and managing
	the development the necessary softw	vare;	
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(i)	determining manufacturing method	ds for computer-based sys	stems as well as	
	the maintenance and repair of exist equipment.	ing computer-based syster	ns, networks and	
IDENTIFIED !	ENGINEERING WORK IN INDUST	RIAL ENGINEERING DIS	SCIPLINE	
design improv informa goods (2) <i>A</i> inves	, planning, manufacture, constructi ement and installation of integrate ation, equipment and energy, to ensu and services through the application A registered person who performs tigates and reviews the utilisation of	ion, management, mainte ed systems of processes, ure the effective and efficier n of industrial engineering work in the industrial eng personnel, facilities, equipn	enance, operation, people, materials, at delivery of quality sciences. gineering discipline ment and materials,	
CUITO	nt anaratianai nracaeeae ana aetaniie	\mathbf{n}	Sha improvomont in	
the	efficiency of operations in a variety	y of commercial, industri	al and production	
the	efficiency of operations in a variety onments.	y of commercial, industri	al and production	
(3) The opposite	efficiency of operations in a variety onments. core services in the industrial engine	y of commercial, industri	al and production	
(3) The c pract	core services in the industrial engine ice areas:	y of commercial, industri ering discipline are perforr	al and production	
(3) The or pract (a)	efficiency of operations in a variety onments. core services in the industrial engine ice areas: Agri produce process engineering automation and control engineering	y of commercial, industri ering discipline are perforr g;	al and production	
(3) The c pract (a) (b) (c)	efficiency of operations in a variety onments. core services in the industrial engine ice areas: Agri produce process engineering automation and control engineering clinical engineering:	y of commercial, industri ering discipline are perforr g; ng;	al and production	
(3) The c pract (a) (b) (c) (d)	efficiency of operations in a variety onments. core services in the industrial engine ice areas: Agri produce process engineering automation and control engineerin clinical engineering; enterprise resource management	y of commercial, industri ering discipline are perforr g; ng;	al and production	
(3) The c pract (a) (b) (c) (d) (e)	efficiency of operations in a variety onments. core services in the industrial engine ice areas: Agri produce process engineering automation and control engineering clinical engineering; enterprise resource management fabrication engineering;	y of commercial, industri eering discipline are perforr g; ng;	al and production	
(3) The c pract (a) (b) (c) (d) (e) (f)	efficiency of operations in a variety onments. core services in the industrial engine ice areas: Agri produce process engineering automation and control engineering clinical engineering; enterprise resource management fabrication engineering; industrial efficiency engineering;	y of commercial, industri ering discipline are perforr g; ng; engineering;	al and production	
the envir (3) The c pract (a) (b) (c) (d) (e) (f) (g)	efficiency of operations in a variety onments. core services in the industrial engine ice areas: Agri produce process engineering automation and control engineering clinical engineering; enterprise resource management fabrication engineering; industrial efficiency engineering; industrial machinery engineering;	y of commercial, industri ering discipline are perforr g; ng; : engineering;	al and production	
the envir (3) The c pract (a) (b) (c) (d) (e) (f) (g) (h)	Agri produce processes and establish automation and control engineering automation and control engineering clinical engineering; enterprise resource management fabrication engineering; industrial efficiency engineering; manufacturing logistics engineering;	y of commercial, industri ering discipline are perforr g; ng; : engineering;	al and production	
the envir (3) The c pract (a) (b) (c) (d) (e) (f) (g) (h) (i)	efficiency of operations in a variety onments. core services in the industrial engine ice areas: Agri produce process engineering automation and control engineering clinical engineering; enterprise resource management fabrication engineering; industrial efficiency engineering; manufacturing logistics engineering manufacturing technology engineering	y of commercial, industri ering discipline are perforr g; ng; engineering;	al and production	
the envir (3) The c pract (a) (b) (c) (d) (e) (f) (g) (h) (i) (j)	efficiency of operations in a variety onments. core services in the industrial engine ice areas: Agri produce process engineering automation and control engineering clinical engineering; enterprise resource management fabrication engineering; industrial efficiency engineering; industrial machinery engineering; manufacturing logistics engineering operations research engineering;	y of commercial, industri ering discipline are perforr g; ng; engineering;	al and production	
the envir (3) The c pract (a) (b) (c) (d) (c) (d) (e) (f) (g) (h) (i) (j) (k)	Agri produce processes and establish onments. core services in the industrial engine ice areas: Agri produce process engineering automation and control engineering clinical engineering; enterprise resource management fabrication engineering; industrial efficiency engineering; industrial machinery engineering; manufacturing logistics engineering operations research engineering; plant engineering;	y of commercial, industri ering discipline are perforr g; ng; engineering;	al and production	
the envir (3) The c pract (a) (b) (c) (d) (e) (f) (g) (h) (i) (j) (k) (l)	efficiency of operations in a variety onments. core services in the industrial engine ice areas: Agri produce process engineering automation and control engineering clinical engineering; enterprise resource management fabrication engineering; industrial efficiency engineering; industrial machinery engineering; manufacturing logistics engineering operations research engineering; plant engineering; process design engineering;	y of commercial, industri ering discipline are perforr g; ng; c engineering;	al and production	
the envir (3) The c pract (a) (b) (c) (d) (c) (d) (e) (f) (g) (h) (i) (j) (k) (l) (m)	 A processes and established efficiency of operations in a variety porments. core services in the industrial engine ice areas: Agri produce process engineering automation and control engineering clinical engineering; enterprise resource management fabrication engineering; industrial efficiency engineering; industrial machinery engineering; manufacturing logistics engineering; manufacturing technology engineering; plant engineering; process design engineering; 	y of commercial, industri eering discipline are perforr g; ng; :: engineering;	al and production	
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(o)	quality management engineering];		
(p)	robotics and production automat	ion engineering;		
(q)	safety engineering;			
(r)	supply chain management engir	neering; and		
(s)	value engineering,			
IDENTIFIED	ENGINEERING WORK IN MECH	ANICAL ENGINEERING DIS	CIPLINE	
12 (1) T	be core services in the mechanica	l engineering discipline consi	st of the analysis	
nlanning des	ion manufacture construction n	management operation and	maintenance of	
materials stee	al structures components machine	is plant and systems for	maintenance of	
	iffing boisting and materials hand	ing turbings pumps and fluir	h nower beating	
(a) 1	cooling ventilating and air condition	ing. turbines, pumps and nut	a power, nearing,	
(b) f		nlant turbinos		
(d)	fuels, combustion, engines, steam plant, turbines,			
(d) f	ire protection:	10003,		
(a)	ne protection,			
(e) I	the structures through the applies	ation of onginooring sciences:	mochanics solid	
(i) 1	nechanics, thermodynamics, fluid n	nechanics.		
(2) The	core services in the mechanical	engineering discipline are	performed in the	
follov	ving practice areas:			
(a)	Advising on and designing mac construction,	hinery and tools for manu	facturing, mining,	
	agricultural and other purposes;			
(b)	advising on and designing stean	n, internal combustion and o	other non-electric	
	motors and engines used in prop	ulsion of railway locomotives,	, road vehicles or	
	aircraft or for driving industrial or	other machinery		
(c)	advising on and designing hulls, si	uperstructures and propulsion	systems of ships;	
	mechanical plant and equipment for	or the release, control and uti	lisation of energy,	
	heating, ventilation and refrigeration	on systems, steering gear,	pumps and other	
	mechanical equipment			
(d)	advising on and designing airfra	mes, undercarriages and oth	er equipment for	
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	aircraft	as well as suspension	systems,	brakes, vehicle bo	odies and other
	compone	ents of road vehicles			
(e)	advising	on and designing non-	electrical p	earts of apparatus or	products such
	as word	processors, computers,	precision in	struments, cameras	and projectors;
(f)	establish	ning control standards an	d procedur	es to ensure efficient	functioning and
	safety of	machines, machinery, to	ools, motors	s, engines, industrial	plant, equipment
	or syster	ns;			
(g)	ensuring	that equipment, oper	ration and	maintenance com	oly with design
	specifica	itions and safety standar	ds.		
IDENTIFIE					
IDENTIFIED					DISCIPLINE
(a)	physical characteri	metallurgical engineerin sation, failure analysis a	g which is nd applicati	s the analysis, des on of materials, inclu	ign, production, iding metals, for
	engineerir and engin	ng applications based o eering requirements; or	n an under	standing of the prop	perties of matter
(b)	extractive developing or interme	metallurgical engineer g and operating commerce ediate compounds from compounds	ring which cial-scale provide the provided t	is the research, p rocesses for the extr mical or physical proc	lanning, design, action of metals cesses, including
	through the	night temperatures, the			process plants,
(2) Th	unrough u	ices of a physical metallul	urgical engin	beening sciences.	ical engineering
(z) fin	cipline are p	performed in the following	g practice a	ireas:	
(a)	Develop, or weldin products materials	, control and advise on p ng of metals, alloys and or develop new alloys s for engineering applicat	orocesses us other mat , materials ions, and do	sed for casting, alloyi erials to produce co and processes, evalu o quality control and fa	ing, heat treating ommercial metal uate and specify ailure analyses;
(b)	investiga supervis manufac	te properties of metals a e technical aspects of m turing;	nd alloys, c etal and all	levelop new alloys ar oy manufacture, proc	nd advise on and cessing, use and
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remedial actions to avoid material failures.

IDENTIFIED ENGINEERING WORK IN MINING ENGINEERING DISCIPLINE

14 (1) The core services in the mining engineering discipline consist of the analysis, planning, design and development, manufacture, construction, management, operation, maintenance and rehabilitation of works for the extraction of minerals from natural deposits on the earth's surface underground or under water through the application of mining engineering science.

- (2) The core services in the mining engineering discipline are performed in the following practice areas:
 - (a) Conducting fundamental or operational research and advising on occupational health and safety and environmentally responsible mineral excavation methodology, processes and systems;
 - (b) designing and specifying mineral excavation processes, application of mining resources and mining technical support services required, occupational health, safety and environmental considerations and quality assurance;
 - (c) establish production and operational control standards and procedures to ensure compliance with legislation and site-specific requirements;
 - (d) manage occupational health, safety and environmentally-related hazards and accompanying risks;
 - (e) performing tests throughout the life-cycle stages and mineral excavation processes to determine the degree of control over variables identified during the strategic and tactical mine design and planning processes;
 - develop appropriate site-specific risk management policies, procedures and standards;
 - (g) prepare pre-feasibility and feasibility reports and life-of-mine exploitation strategies and plans, business plans and bankable documents based on sitespecific assumptions, premises, constrains and best practice standards;
 - (h) converting mineral resources into mineable reserves;
 - (i) performing mineral asset valuations;
 - (j) managing mineral assets; and

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(k) education and training of candidate mining engineering practitioners.

IDENTIFIED ENGINEERING WORK FOR PROFESSIONAL CERTIFICATED ENGINEER

15 (1) For the purposes of section 26(3)(a) of the Engineering Profession Act, work identified for persons registered in terms of section 18(1)(a)(iii) of the Engineering Profession Act includes the core services for the practice areas referred to in sub-item (3)provided that the person so registered holds a statutory certificate of competency issued in terms of the Mines Health and Safety Act 1996, the Occupational Health and Safety Act 1993 or the Merchant Shipping Act 1951.

- (2) The list of activities identified sub-item (3) is not exhaustive and any similar activity that is undertaken in order to perform a core service in compliance with an agreement to provide engineering work which is not listed in sub-item (3) below is deemed to be an activity listed in sub-item (3).
- (3) Engineering work performed by a Professional Certificated Engineer includes-
 - (a) the application of current engineering technology
 - (b) the management and operation of technology based engineering solutions and processes;
 - (c) the introduction of known engineering services and management methods;
 - (d) the management of the implementation of broadly-defined engineering projects and the routine maintenance of engineering infrastructure;
 - (e) the management of moderate to high level of risks associated with engineering processes, systems, equipment and infrastructure; and the specify operational and safety requirements to ensure inherently safe working conditions; within the specific context relating to persons working in factories, mines and on ships as certificated persons appointed in terms of the Occupational Health and Safety Act, 1993, the Mines Health and Safety Act, 1996 and the Merchant Shipping Act, 19517
- (4) A person may perform work identified in this item if he or she is in possession of any one or more of the following government certificates of competency:
 - (a) Electrical Engineer's Certificate of Competency issued in terms of the Mines

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	Health and Safety Act, 1996;				
(b)	Mechanical Engineer's Certificate of Health and Safety Act, 1996;	Competency issued in term	s of the Mines		
(c)	(c) Electrical Engineer's Certificate of Competency issued in terms of the Occupational Health and Safety Act. 1993:				
(d)	Mechanical Engineer's Certificate of Occupational Health and Safety Act,	of Competency issued in 1993;	terms of the		
(e)	(e) Manager's Certificate of Competency (Metalliferous) issued in terms of the Mines Health and Safety Act 1996.				
(f)	 (f) Manager's Certificate of Competency (Coal) issued in terms of Mines Health and Safety Act. 1996; and 				
(g)	Chief Engineer Officer- Foreign Go terms of the Merchant Shipping Act,	ing Certificate of Compete 1951.	ency issued in		
SCOPE OF §	GERVICES				
16 The in section 18(in the applica	standard services performed by a pers 1)(a) of the Engineering Profession Act ble stages of an engineering project on nexure A.	son registered in any categ who performs identified en or construction works projec	ory referred to gineering work ct are given in		
Table A in An					
Table A in An WORK BY EDUCATION	PERSON WHO OVERSEES PLA AND TRAINING PROGRAMME AI	NNING, DESIGN AND I ND EMPLOYEE OF ORG	DELIVERY OF AN OF STATE		
Table A in An WORK BY EDUCATION DEEMED IDE	PERSON WHO OVERSEES PLA AND TRAINING PROGRAMME AI INTIFIED WORK	NNING, DESIGN AND I ND EMPLOYEE OF ORG	DELIVERY OF AN OF STATE		

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(2) Any person	who is employed by an organ	of state and whose conditi	ons of service

- require of that person to manage the delivery and maintenance of engineering work is deemed to be a person who performs identified work contemplated in item 2 of this Notice.
- (3) For the purpose of this item, "exit level" means the "exit level" contemplated in the Regulations issued in terms of the National Qualifications Framework Act, 67 of 2008.

PERFORMANCE OF IDENTIFIED WORK BY PERSON REGISTERED IN DIFFERENT CATEGORY

18 (1) For the purposes of section 18(2) of the Engineering Profession Act, a person who is registered as a Professional Engineer is deemed to be registered as an Engineering Technologist or Professional Engineering technologist technologist or Professional Engineering technologist technolo

- (2) A person who is registered as a Professional Engineering Technologist is deemed to be registered as a Professional Engineering Technician and may perform any of the identified engineering work that a Professional Engineer Technician may perform as indicated in items 6 to 15 in the relevant engineering discipline provided that he or she is competent in terms of his or her education, training and experience to perform that work.
- (3) A person registered in a particular category referred to in section 18(1)(a) or (c) of the Engineering Profession Act, may, notwithstanding the provisions of items 6 to 15, perform any work identified in items 6 to 15 for a different category of registered person, if ECSA grants such registered person a transitional authorisation, special consent or category adjustment, as the case may be.
- (4) A person who is registered as a Professional Certificated Engineer may perform engineering work identified at the broadly-defined level in the disciplines referred to in items 10, 12 and 14 commensurate with the qualification or combination of qualifications which led to the issuing of his or her certificate of competency referred

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to in item 15.

(5) Notwithstanding the provisions of this item, a person who is registered as a candidate referred to in section 18(1)(b) of the Engineering Profession Act may not apply for special consent and may only perform identified engineering work under the direction, control and direct supervision of a person registered in the appropriate category in terms of the Engineering Profession Act if the professional or person concerned is authorised under items 6 to 15 in the relevant engineering discipline to perform such identified engineering work.

TRANSITIONAL AUTHORISATION

19 (1) A person who is registered in terms of the Engineering Profession Act and who, after commencement of that Act but before commencement of this notice, performed identified engineering work referred to in items 6 to 15 for a person registered in a category of registration in which he or she is not registered, may apply to ECSA for a transitional authorisation.

- (2) An application for a transitional authorisation must be in writing, submitted to ECSA in the form determined by ECSA within six months from the date of commencement of this notice and be accompanied by-
 - (a) proof of practice during the period contemplated in sub-item (1) within the category that he or she is not registered for;
 - (b) all available documents pertaining to that practice;
 - (c) the name and contact details of at least two registered persons who are in a position to serve as personal referees;
 - (d) the fee determined by ECSA in accordance with section 12 of the Engineering Profession Act; and
 - (e) any other information required by ECSA.
- (3) When considering an application for a transitional authorisation ECSA must take into account the education, training and experience of the applicant requesting such transitional authorisation to undertake the applicable identified engineering work commensurate with the competency requirements contemplated in item 4.
- (4) ECSA may, after evaluation of the application for transitional authorisation refuse

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	or approve the transitional authorisa	ation and if it approves th	e transitional	
	authorisation it may subject the approva	al to any condition it considers	appropriate.	
(5)	If ECSA refuses to grant a transitional	authorisation it must, in writ	ting, provide the	
	applicant with the reasons for its decision	on within seven days of that de	ecision.	
(6)	If ECSA approves the transitional authorisation it must issue a transitional			
	authorisation certificate in the manner	determined by it and the ce	ertificate must	
	contain the conditions of issue, if any.			
(7)	A transitional authorisation certificate a	uthorises the holder thereof to	o perform the	
	work identified in terms of this Notice for another category of registered person			
	for a period of five years provided that	at the holder remains a regis	stered person,	
	complies with the continuing profess	sional development requirem	ents and the	
	conditions of approval, if any.			

SPECIAL CONSENT

20 (1) A registered person who, after commencement of this notice, intends to perform work for a specific project, commission or appointment or a particular scope of work for which specific competencies are required and which is identified in this Notice for a person registered in a category of registration and linked to a particular discipline in which he or she is not registered, may apply to ECSA for special consent.

(2) An application for special consent must be in writing submitted to ECSA in the form determined by ECSA

and be accompanied by-

- (a) a brief motivation for the application;
- (b) if applicable, an affidavit from the prospective client of the applicant, other consultants on the proposed team and the proposed contractor;
- (c) if applicable, an affidavit from the employer of the applicant who is entitled to perform the identified work by reason of the employer's registration in the applicable category;
- (d) all available documents pertaining to the proposed project;
- (e) the name and contact details of at least two persons who are in a position to serve as personal referees;

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(f)	the	fee determined by ECSA in acco	ordance with section 12 of	the Engineering
	Prof	ession Act; and		
(g)	any	other information required by ECS	SA.	
(3)	Whe	n considering a request for specia	al consent, ECSA must take i	nto account the
	educ	cation, training and experience of th	he applicant requesting such	special consent
	to u	ndertake the applicable identified	engineering work at the leve	el of complexity
	of a	a project contemplated in item	3 commensurate with th	e competency
	requ	irements contemplated in item 4.		
(4)	ECS	A may, after evaluation of the app	lication for special consent re	ferred to in this
	item	, refuse or approve the special cor	nsent and if it approves the s	special consent
	it m	ay subject the approval to any co	ondition it considers appropria	te.
(5)	If EC	CSA refuses to grant a special con	nsent it must, in writing, prov	ide the applicant
	with	the reasons for its decision within	seven days of that decision.	
(6)	If EC	CSA grants the special consent:		
	(a)	for a specific project, commiss	ion or appointment it must i	ssue a special
		consent certificate for that spec	ific project, commission or ap	pointment; or
	(b)	for a particular scope of work w	hich requires specific compe	tencies, it must
		issue a special consent certification	ate for that particular scope	of work, in the
		manner determined by it and th	ne certificate must contain the	e conditions of
		issue, if any.		
(7) A	spec	ial consent certificate granted for	-	
	(a)	a specific project, commission o	or appointment, authorises the	e holder thereof
		to perform the relevant work for	r the duration of that project,	commission or
		appointment; or		
	(b)	a particular scope of work whic	h requires specific competen	cies, authorises
		the holder thereof to perform the	ne particular scope of work	for a period of
		five years provided that the pe	erson remains a registered pe	erson, complies
		with continuing professional dev	velopment requirements and	the conditions
		of approval, if any.		
CATEGO	RY AE	DJUSTMENT		
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(1) A registered person who, after commencement of this notice, generally wants to perform work identified in item 3 and 4 read with items 6 to 15, for a person registered in a category of registration in which he or she is not registered, may apply to ECSA for a category adjustment.

(2) An application for a category adjustment must comply with the rules of ECSA pertaining to registration.

CROSS DISCIPLINARY PRACTISE

A person who is registered as a professional and who performs identified engineering work in a particular discipline identified in items 5 to 16 for which he or she has the competence, education, training and experience, may perform identified engineering work in a different discipline if he or she has the competence, education, training and experience to perform such work in that different discipline.

DUAL REGISTRATION

A person who is registered as a professional under the professions' Acts, other than the Engineering Profession Act may apply for registration with ECSA provided that such person can show proficiency to perform the identified engineering work applicable to the respective category of registration.

SCOPE OF WORK IDENTIFIED BY COUNCIL FOR THE BUILT ENVIRONMENT FOR PROFESSIONALS OF OTHER COUNCILS FOR THE PROFESSIONS

24 (1) A person registered in a category referred to in section 18(1)(a) of the Architectural Profession Act, 2000 (Act No. 44 of 2000) may perform the scope of work determined in Annexure B which falls within the scope of the engineering profession regulated by the Engineering Profession Act if the education, training and experience of that person have specifically rendered him or her competent to perform that work and the work is performed within the framework of architectural work as defined in Notice No... of 2020 issued by the Council for the Built Environment.

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- (2) A person registered in a category referred to in section 18(1)(a) of the Engineering Profession Act may perform the scope of services contemplated in Notice No... of 2014 issued by the Council for the Built Environment which falls within the scope of services of the quantity surveying profession regulated by the Quantity Surveying Profession Act, 2000 (Act No. 44 of 2000), if the qualification, training and experience of that person have specifically rendered him or her competent to perform those services and the services are performed within the framework of engineering work.
- (3) A person registered in a category referred to in section 18(1)(a)(i) of the Engineering Profession Act may perform the scope of work determined in Annexure C which falls within the scope of the project and construction project management professions regulated by the Project and Construction Project Management Professions Act, 2000 (Act No. 48 of 2000) if the education, training and experience of that person have specifically rendered him or her competent to perform that work and the work is performed within the context of a construction works project.
- (4) A person registered in a category referred to in section 18(1)(a) of the Engineering Profession Act may, in conjunction with a person registered in terms of section 18(1)(a) of the Landscape
- (5) Architectural Profession Act, 2000 (Act No. 45 of 2000) perform the scope of work identified in Notice No... of 2020 issued by the Council for the Built Environment, if the qualification, training and experience of that person have specifically rendered him or her competent to perform those services and the services are performed within the framework of engineering work or construction works.

APPEAL

Any person who feels aggrieved by an action of ECSA as a result of the work identified in this notice or due to the refusal by ECSA to grant a transitional authorisation, special consent or category adjustment contemplated in items 19, 20 or 21 may lodge an appeal against such an action with ECSA and section 35 of the Engineering Profession

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Act applies with the necessary changes.

IMPROPER CONDUCT

26 Any registered person who is not permitted to undertake work identified in items 5 to 16 or who has not obtained a transitional authorisation, special consent or category adjustment to do so in terms of item 19, 20 or 21, is in breach of the code of conduct of ECSA and the provisions of the Engineering Profession Act relating to improper conduct applies.

TRANSITIONAL PROVISIONS

27 (1) Any person who is not registered in terms of the Engineering Profession Act, and who is required to be registered as a professional or in a specified category in terms of this Notice must, within 36 months of the date on which this Notice comes into operation, apply for registration according to the programme contemplated in sub-item

- (2) in the appropriate category referred to in section 18(1)(a) or (c) of the Engineering Profession Act.
- (2) A person who is required to be registered in terms of this Notice and whose surname-
 - (a) begins with the letter "A" to "K", may apply for registration from 1 January 2022;
 - (b) begins with the letter "L" to "Q", may apply for registration from 1 January 2023; and
 - (c) begins with the letter "R" to "Z", may apply for registration from 1 January 2024.
- (3) Any person whose registration in a category referred to in section 18(1)(a) or (c) was cancelled in terms of the Engineering Profession Act within one year prior to the date on which this Notice commences must be re- registered in the appropriate professional category within six months from the date on which this Notice commences, unless he or she is not required to be so registered in terms of this Notice.

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ANNEXURE A

WORK IDENTIFIED BY THE COUNCIL FOR THE BUILT ENVIRONMENT IN THE CONTEXT OF AN ENGINEERING PROJECT OR A CONSTRUCTION WORKS PROJECT INCLUDES THE SCOPE OF SERVICES IN THE FOLLOWING STAGES

1. The engineering work performed by a person registered in terms of section 18(1)(a) of the Engineering Profession Act in the context of an engineering project or a construction works project, includes the standard services set out in Table A to the extent that the registered person's education, training, experience and contextual knowledge render him or her competent to perform.

2. A person registered in terms of section 18(1)(a) of the Engineering Profession Act may, in the performance of engineering work in the context of an engineering project or the mechanical and electrical engineering work components of a construction works project, perform the work of a principal consultant or principal agent, if appointed as such by the client or employer, to the extent that the registered person's education, training, experience and contextual knowledge render him or her competent to perform.

3. Stages 7, 8 and 9 in Table A below are only applicable to engineering projects.

Table A: Scope of services for a person registered in terms of section 18(1)(a) of the Engineering Profession Act in the context of an engineering project or a construction works project.

ST	AGE 1: INCEPTION
1	Assist in developing a clear project brief
2	Attend the project initiation meetings
3	Advise on policies, inter alia, procurement, logistics, indigenisation, standards and specifications for the
4	Advise on rights, constraints, consents and approvals
5	Define the services and scope of work required.
6	Conclude the terms of the agreement with the client
7	Inspect the site and advise on the necessary surveys, analyses, tests and site or other investigations where such information will be required for Stage 2 including the availability and location of
	where such monimation will be required for stage 2 mondaring the availability and result of

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8	Determine availabil	ity of data, drawings and pla	ans relating to the project		
9	Advise on appropria	ate financial design criteria	5 1 5		
10	Advise on other cri	iteria that could influence th	e project life cycle cost signific	antly	
11	Provide necessary	information within agreed so	cope of the project to the other	consultants involved	
et et			sope of the project to the other of		
51			minded approximate and aligned		
	Agree the docume	ntation programme with the	principal consultant, and client	t and the other consultants	
2	Attend design and	consultants' meetings			
3	Establish concept	and project design criteria			
4	Prepare initial cond	cept design and related doc	umentation		
5	Advise the client re	egarding further surveys, an	alyses, tests and investigation	s which may be required	
6	Refine and assess	concept design to ensure co	onformance with all regulatory r	equirements and consents	
7	Establish regulatory	y authorities' requirements a	nd incorporate into the design		
8	Establish access, u	itilities, services and connec	tions required for the design		
9	Co-ordinate design	interfaces with the other c	onsultants		
10	Prepare preliminar authorities and the	y process designs, prelimin client and suitable for costi	ary designs and related docum	nentation for approval by	
11	Prepare cost estim	ates and comment on life c	vcle costs as required		
12	Liaise, co-operate	and provide necessary info	rmation to the client, principal of	consultant and other	
13	Undertake prelimir	narv risk assessments			
ST	AGE 3: DESIGN D	EVELOPMENT			
1	Review the docume	entation programme with the	principal consultant and the o	ther consultants	
2	Attend design and	consultants' meetings			
3	Incorporate the clie	nt's and authorities' detailed	requirements into the design		
4	Incorporate the oth	er consultants' designs and	requirements into the design		
5	Prepare design dev	elopment drawings, includir	ng draft technical details and sp	ecifications	
<u> </u>	Review and evalua	te design and outline specifi	cations and exercise cost contr	rol and project	
7	Prepare detailed es	stimates of construction cost	s and other costs		
0	Liaise, co-operate a	and provide necessary information to log	nation to the client, principal co	nsuitant and other	
10	Conduct relevant ri	ovai.			
ST	AGE 4: DOCUMEN		IENT		
1	Chair or attend des	ign and consultants' meetin	qs.		
2	Prepare specification	ons and preambles for the w	vorks		
3	Accommodate serv	vices design			
4	Check cost estimate with the quantity surveyor and adjust designs and documents if necessary to remain within budget				
5	Chair or assist the contractors .	principal consultant in the fo	rmulation of or formulate the pr	ocurement strategy for	
6	Review working dra	awings for compliance with t	he approved budget and scope)	
7	Prepare documenta	ation for contractor procuren	nent		

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9	Assist the principal	consultant with calling of ten	ders and negotiation of prices	s, if required Calling for		
10	Liaise, co-operate a consultants as requ	and provide necessary inform	ation to the principal consulta	ant and the other		
11	Assist with evaluation	on of tenders				
12	Assist with prepara	tion of the contract documer	tation for signature			
13	Assist in pricing, do activities are provid	ocumentation and tender eva ed by others	aluation as required when the	e detailed services for the		
14	Assess samples ar	d products for compliance ar	nd design intent			
ST	AGE 5: CONSTRU	CTION				
1	Attend the site hand	dover				
2	Issue construction of case of structural e structural steel sec	documentation in accordance ngineering, reinforcing bendi tions and connections	with the documentation prog ing schedules and detailing a	gramme including, in the and specifications of		
3	Carry out contract a	administration procedures del	egated by the principal agent	t in terms of the contract		
4	Prepare schedules	of predicted cash flow				
5	Prepare pro-active	estimates for proposed variat	ions for client decision-makir	ng		
6	Attend regular site,	technical and progress meet	ings			
7	Inspect the works for	or quality and conformity to a	pproved contract documentat	ion		
8	Adjudicate and reso	olve financial claims by contra	actor			
9	Assist in the resolut	ion of contractual claims by t	he contractor			
10	Establish and main	tain a financial control system	1			
11	Clarify details and o	descriptions during construction	on as required			
12	Prepare valuations	for payment certificates to be	e issued by the principal agen	it		
13	Instruct, witness an	d review of all tests and moc	k-ups carried out both on and	off the site		
14	Check and approve	subcontract snop contractor	drawings for design intent			
15	Update and issue d	rawings register	4			
17	Review and comme	actions as and when required	ance manuals quarantoso is	pertificates and warrantica		
1 2	Inspect the works a	and issue practical completion	and defects lists	and wandlies and wandlides		
19	Arranging for the d drawings and opera	elivery of all test certificates, ating manuals.	statutory (regulatory) and of	ther approvals, as built		
20	Compilation of the	required safety information				
21	Prepared final acco	ount(s) for electrical and med	chanical engineering works of	on a progressive basis		
ST	STAGE 6: CLOSE-OUT OF THE CONSTRUCTION PHASE					
1	Inspect and verify	rectification of defects				
2	Receive, comment and approve relevant payment valuations and completion certificates					
3	Facilitate and/or prepare and/or procure operations and maintenance manuals, guarantees and warranties as- built drawings and documentation					
4	Prepare and/or pro	cure as-built drawings and o	documentation			
5	Conclude the final	accounts where relevant				
6	Obtain final handov	ver and acceptance from the	client			
ST	AGE 7: OPERATE	IN ACCORDANCE WITH P	URPOSE STATEMENT FOR	R LIFE OF PROJECT		
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STAGE 8: MAIN	TAIN THE AS-BUILT-STATE FOR	LIFE OF PROJECT	
STAGE 9: SHUT	DOWN PERMANENTLY; DECOM	IMISSION; DEMOLISH AND F	RE-INSTATE

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ANNEXURE B

WORK IDENTIFIED BY THE COUNCIL FOR THE BUILT ENVIRONMENT WHICH FALLS WITHIN THE SCOPE OF THE ENGINEERING PROFESSION WHICH IS REGULATED BY THE ENGINEERING PROFESSION ACT WHICH MAY BE PERFORMED BY A PERSON REGISTERED IN A CATEGORY REFERRED TO IN SECTION 18(1)(a) OF THE ARCHITECTURAL PROFESSION ACT

A person registered in terms of section 18(1)(a) of the Architectural Profession Act, 2000 may perform the following work which falls within the scope of the engineering profession which is regulated by the Engineering Profession Act to the extent that the registered person' education, training, experience and contextual knowledge render them competent to perform:

 The design of any building or building component using the deemed-to-satisfy requirements given in SANS 10400: The application of the National Building Regulations, excluding the application of rational design or rational assessment as defined in SANS 10400-A.

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ANNEXURE C

WORK IDENTIFIED BY THE COUNCIL FOR THE BUIIT ENVIRONMENT WHICH FALLS WITHIN THE SCOPE OF THE PROJECT AND CONSTRUCTION PROJECT MANAGEMENT PROFESSION REGULATED BY THE PROJECT AND CONSTRUCTION PROJECT MANAGEMENT PROFESSION ACT, 2000 WHICH MAY BE PERFORMED BY A PROFESSIONAL REGISTERED IN THE CATEGORY REFERRED TO IN 18(1)(a)(i) OF THE ENGINEERING PROFESSION ACT

1. A person registered in terms of section 18(1)(a)(i) of the Engineering Profession Act may perform the scope of services indicated in Table C1 below which falls within the scope of services identified by the Council for the Built Environment for a professional registered in terms of the Project and Construction Management Professions Act, 2000, to the extent that the registered person' education, training, experience and contextual knowledge render them competent to perform.

2. The work referred to in the table below is the work contemplated in Notice No. ... of 2014 issued by the Council for the Built Environment.

	STAGE 1- PROJECT INITIATION AND BRIEFING					
s	standard Services					
1.1	Assist the client in the procurement of the necessary and appropriate consultants including the clear definition of their roles, responsibilities and liabilities.					
1.2.	Establish in conjunction with the client, consultants, and all relevant authorities the site characteristics necessary for the proper design and approval of the intended project					
1.3.	Manage the integration of the preliminary design to form the basis for the initial viability assessment of the project					
	STAGE 2- CONCEPT AND FEASIBILITY					
S	Standard Services					
2.1	Assist the client in the procurement of the necessary and appropriate consultants including the clear definition of their roles, responsibilities and liabilities.					
2.2	Advise the client on the requirement to appoint a Health and Safety Consultant					
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			STAGE	3 - DES	GIGN DEVELOPMENT		
	St	andard Servic	es				
	3.1	Assist the cli clear definitio	ent in the procurement of n of their roles, responsibi	the bala lities an	ance of the consultants ir d liabilities.	ncluding the	
	3.2	Manage, co-c	ordinate and integrate the o	design b	y the consultants		
	3.3	Conduct and	record the co-ordination n	neetings			
	3.4	Manage and documentatio	monitor the timeous subm n to obtain the necessary	nission k statutor	by the design team of all approvals	plans and	
	3.5	Establish res	oonsibilities and monitor th	ne inform	nation flow between the de	esign team.	
	3.6 team	Facilitate and	monitor the timeous techr	nical co-	ordination of the design b	y the design	
			STAGE 4- TENDER DO	OCUME	NTATION AND PROCU	REMENT	
	St	andard Servi	ces				
	4.1	Manage the t	ender process in accordar	nce with	agreed procedures.		
			STAGE 5- CONSTRUCT	ION DO	CUMENTION AND MAN	AGEMENT	
	Sta	andard Servic	es				
	5.1	Appoint contra	actor(s) on behalf of the c	lient incl	uding the finalisation of al	I agreements.	
	5.2	Instruct the co	ontractor on behalf of the o	client to	appoint subcontractors.		
	5.3	.3 Receive, co-ordinate, review and obtain approval of all contract documentation provided by the contractor, subcontractors, and suppliers for compliance with all of the contract requirements.					
	5.4	Facilitate the	handover of the site to the	e contrac	tor.		
	5.5	Regularly cor	iduct and record the neces	ssary sit	e meetings		
	5.6 Monitor the compliance by the contractors of the requirements of the Health and Safety Consultant.						
	5.7 Monitor the preparation by the Environmental Consultants of the Environmental Management Plan						
	5.8	Establish the	construction information di	istributio	n procedures.		
	5.9	9 Agree and monitor the Construction Documentation Schedule for timeous delivery of required information to the contractors.					
	5.10 inform	Manage the r ation.	eview and approval of all r	necessa	ry shop details and produ	ct propriety	
	5.11	Agree to the the consultan	quality assurance proceduts and contractors.	ures and	monitor the implemental	tion thereof by	
	5.12	Monitor, revie	w, approve and certify mo	nthly pro	ogress payments.		
	5.13	Receive, revi	ew and adjudicate any con	ntractual	claims.		
	5.14	Issue the Pra	ctical Completion Lists and	d the Ce	rtificate of Practical Com	oletion.	

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	5.15	Issue of the Wo	orks Completion List by the	consultants to the contractors.		
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	6.1 Issue the Works Completion Certificate					
	6.2 Preparation of all as-built drawings and design documentation.					
	6.3 The procurement of all statutory compliance certificates and documentation.					
	6.4	Issue the Fina	al Completion Defects list an	d Certificate of Final Completio	n.	

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BOARD NOTICE 22 OF 2021

ENSURING THE EXPERTISE TO GROW SOUTH AFRICA

Guideline Professional Fees

(Scope of Services and Tariff of Fees for Persons Registered in terms of the Engineering Profession Act, 46 of 2000)



ENGINEERING COUNCIL OF SOUTH AFRICA Tel: 011 607 9500 | Fax: 011 622 9295

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SCHEDULE

DEFINITIONS

In this Schedule, any word or expression defined in the Act has that meaning, and, unless the context otherwise indicates:

Building Project and Multi-Disciplinary Project means a project comprising building work or multi-disciplinary work, together with its associated engineering work, where the engineer is subject to the authority of another professional acting as the Principal Agent while financial and administrative matters may be dealt with by another professional, and where the engineer is only paid a fee based on the costs of a portion of works.

Client means any juristic person or organ of the State engaging a consulting engineer for services on a project.

Consulting Engineer or Consultant, for purposes of these rules only, means any professional registered in terms of the Act, or a juristic person who employs such professional, engaged by a client on a project.

Construction Monitoring means the process of administering the construction contract and over-seeing and/or inspecting the works, to the extent of the consulting engineer's engagement, for the purpose of verification that the works are being completed in accordance with the requirements of the contract that the designs are being correctly interpreted and that appropriate construction techniques are being utilised. Construction monitoring, to whatever extent, does not diminish the contractor's responsibility for executing and completing the works in accordance with his contract.

Contractor means any person or a juristic person under contract to a client to perform the works or part of it on a project, including a subcontractor under contract to such contractor.

Cost of the Works means the total final amount (or a fair estimate thereof), exclusive of value added tax, certified or which would, normally, be certifiable for payment to Contractors (irrespective of who actually carries out the works) in respect of the works

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designed, specified or administered by the consulting engineer, before deduction of liquidated damages or penalties, including the following:

- Escalation, assuming continuity of the project through to final completion. Where
 delays occur in the project cycle the client and consultant should come to an
 agreement on the escalation that will be applicable to various stages of services.
- A pro-rata portion of all costs related to the Contractor general obligations and overhead (preliminary and general) items, including contractor's profit, applicable to the works (irrespective of who actually carries out the works).
- The costs of new materials, goods or equipment, or a fair evaluation, of such material, goods or equipment as if new whether supplied new or otherwise by or to the client and including the cost or a fair evaluation of the cost of installation (the sourcing, inspection and testing of such comprise additional services by the consulting engineer).

Electronic Engineering Services means services related to the provision of electronic systems and detailing the terminations, signals and interconnections of electronic components as distinct from conventional electrical HV, MV and LV systems and related reticulation.

Engineering Project means a project of which the scope comprises mainly engineering work.

Fees and/or tariff of fees means payment made to a consultant or consulting engineer in exchange for advice or services.

Normal Services means the services set out in clause 3.2.

Principal Consultant means the Professional Service Provider appointed by the client to manage and administer the services of all consultants on a multi-disciplinary project, where more than one professional service provider is appointed.

Principal Agent means the entity, person, or professional services provider named or appointed with full authority and obligation to act in terms of the contract between the client and the contractor. Depending on the form of contract applicable, the term "agent, or

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employer's agent", or "engineer", or "project manager" have the same meaning as "principal agent".

Project means any total scheme envisaged by a client, including all the works and services concerned.

Quality Assurance Plan is the plan that is put in place that represents the total of the contractor's quality control processes as well as other inspections and acceptable testing processes and related activities that are associated with assuring the client that the works will meet acceptable standards.

Scope of Work means the portion of the works for which the consulting engineer is engaged.

Scope of Services and/or Services means the services contemplated in clause 3 on a project for which a consulting engineer is engaged.

Stage means a stage of normal services set out in clause 3.2.

the Act means the Engineering Profession Act, 46 of 2000.

Total Annual Cost of Employment means the total annual cost of employment as defined in clause 4.4(4).

the Agreement means the agreement signed by the client and consulting engineer that defines their relationship and obligations as well as the scope of work and services to be provided by the consulting engineer and the remuneration of the consulting engineer and related commercial terms.

Works means the activities on a project for which contractors are under contract to the client to perform or are intended to be performed, including the supply of goods and equipment.

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1. PREAMBLE

This Schedule shows sets of tariffs of fees that serve as a guideline to determining fees to be paid for engineering services that are fair and equitable to all parties. This schedule allows for four different methods of remuneration namely:

- (a) percentage fee based on the cost of works
- (b) fees for services that are additional to those provided for in the normal percentage feebased calculation
- (c) Time-based fees
- (d) Reimbursable expenses.

Where the scope of work is uncertain remuneration will primarily be based on time and reimbursable expenses.

Where the location, size, character, form and function of the works has been defined through previous studies and investigations that have either formed part of the client's normal business practices or have been the subject of previous separate appointments paid for on a time and cost basis, the remuneration can be determined using the guideline tariffs that are based on the cost of the works. This provides a convenient way to express the fee payable if the scope of work is somewhat uncertain. The typical range of percentage fees applicable to different size projects and services provided are shown in the graph below.

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The graph shows that the fee can range from 6% for a large project up to 20% for a small project. The fee can also fall within the shadowed area on either side of the band depending on the complexity factors that are expanded upon in paragraph 4.1. These factors are normally converted into multipliers that range from 0.3 to 1.5 and that are applied to modify the overall percentage fee and agree on a fair and reasonable fee for the services to be provided.

Once the client and consulting engineer have come to a mutually acceptable agreement on the appropriate fee and the scope of services and scope of work are clearly defined, then the client and consulting engineer should agree on commercial terms that set out the timing of deliverables and related payments as well as the method of payment that seeks to balance service provider cash flow and client risk.

This guideline is not prescriptive but has been produced as an aid to assist a client and the consulting engineer in reaching an equitable agreement on fees for services offered.

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2. GENERAL PROVISIONS

2.1 Repeal and transition

Subject to sub-clause (2), the Guideline Scope of Services and Tariff of Fees for Persons Registered in terms of the Engineering Profession Act, 46 of 2000, published under Government Gazette No. 39480, Board Notice 138 of 04 December 2015, is hereby repealed.

The provisions of previous Board Notices including subsequent amendments still apply in respect of services rendered during a stage, which has not yet been completed by the date of commencement of this Schedule.

2.2 Generality of terms

In this document, except where the context otherwise requires or indicates:

- the masculine includes the feminine
- the singular includes the plural
- any reference to a natural person includes a juristic person.

2.3 Short title

This Schedule is called the Guideline Scope of Services and Tariff of Fees for Registered Persons, 2021.

3. GUIDELINE SCOPE OF SERVICES

3.1 Planning, studies, investigations and assessments

These typical services relate to carrying out studies and investigations as well as the preparation and submission of reports embodying preliminary proposals or initial feasibility studies and will normally be remunerated on a time and cost basis.

- 1. Consultation with the client or client's authorised representative.
- 2. Inspection of the project site.

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- 3. Developing and defining the scope of work where required.
- 4. Preliminary investigation, route location, planning and a level of design appropriate to allow decisions on feasibility.
- 5. Assessment of existing infrastructural elements with the view of informing the project on options of how to integrate existing works with proposed new works.
- 6. Consultation with authorities having rights or powers of sanction as well as consultation with the public and stakeholder groups.
- 7. Advice to the client as to regulatory and statutory requirements, including environmental management and the need for surveys, analysis, tests and site or other investigations, as well as approvals, where such are required for the completion of the report, and arranging for these to be carried out at the client's expense.
- 8. Searching for, obtaining, investigating and collating available data, drawings and plans relating to the works.
- Investigating financial and economic implications relating to the proposals or feasibility studies.
- 10. Clause (9) does not normally apply to civil and structural services or on building projects, where these services are provided by a quantity surveyor, except as far as the interpretation of cost figures concerning the engineer's scope of works.
- 11. Assist the client to develop timeframes for next stages of the project where required.

Deliverables will typically include:

- collation of information
- reports on technical and financial feasibility and related implications
- list of consents and approval
- schedule of required surveys, tests, analyses, site and other investigations
- time frames for upcoming deliverables.

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3.2 Normal Service

These services are applicable to projects where the nature, form and function of the project have been defined through previous investigations and reports and the engineering services are required to take the project through to successful completion of construction.

In the case where only a single consulting engineer is appointed on a project, the services and deliverables of the principal agent are included as normal and must be agreed between the parties to see the project through all stages.

Financial Administration Services

Unless otherwise agreed in writing prior to the commencement of any work, part of the normal services of the consulting engineer on all projects includes the provision of services related to all financial matters such as calculation of quantities, cost estimates, cost control and the procurement process.

The only exceptions, where financial services do not form part of the normal services of the consulting engineer are in the following cases:

- Structural and civil engineering services related to building and multi-disciplinary projects, and where such services form part of the quantity surveyor's scope of services. Where the civil and structural consulting engineer is required to give assistance with such services, these shall be treated as an additional service remunerated on a time and cost basis.
- In the case of building and multi-disciplinary projects where the scope of works forms part of the principal building contract (for example a domestic subcontract) and where such financial administration services form part of the quantity surveyor's scope of services.

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3.2.1 Stage 1 – Inception

Defined as: Establish client requirements and preferences, assess user needs and options, appointment of necessary consultants, establish the project brief including project objectives, priorities, constraints, assumptions aspirations and strategies.

- 1. Assist in developing a clear project brief.
- 2. Attend project initiation meetings.
- 3. Advise on procurement policy for the project.
- 4. Advise on the rights, constraints, consents and approvals.
- 5. Define the scope of services and scope of work required.
- 6. Conclude the terms of the agreement with the client.
- Inspect the site and advise on the necessary surveys, analyses, tests and site or other investigations where such information will be required for Stage 2 including the availability and location of infrastructure and services.
- 8. Determine the availability of data, drawings and plans relating to the project.
- 9. Advise on criteria that could influence the project life cycle cost significantly
- 10. Provide necessary information within the agreed scope of the project to other consultants involved.

Deliverables will typically include:

- agreed scope of services and scope of work
- signed agreement
- report on project, site and functional requirements
- schedule of required surveys, tests, analyses, site and other investigations
- schedule of consents and approvals and related timeframes.

3.2.2 Stage 2 – Concept and Viability (often called preliminary design)

Defined as: Prepare and finalise the project concept in accordance with the brief, including project scope, scale, character, form and function, plus preliminary programme and viability of the project.

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- 1. Agree documentation programme with principal agent or consultant and other consultants involved.
- 2. Attend design and consultants' meetings.
- 3. Establish the concept design criteria.
- 4. Prepare initial concept design and related documentation.
- 5. Advise the client regarding further surveys, analyses, tests and investigations that may be required.
- 6. Establish regulatory authorities' requirements and incorporate into the design.
- 7. Refine and assess the concept design to ensure conformance with all regulatory requirements and consents.
- 8. Establish access, utilities, services and connections required for the design.
- 9. Participate in coordinated design interfaces with architect or other consultants involved.
- 10. Prepare process designs (where required), preliminary designs, and related documentation for approval by authorities and client and suitable for costing.
- 11. Provide cost estimates and life cycle costs, as required.
- 12. Liaise, co-operate and provide necessary information to the client, principal consultant and other consultants involved.

Deliverables will typically include:

- concept design
- schedule of required surveys, tests and other investigations and related reports
- process design
- preliminary design
- cost estimates, as required.

3.2.3 Stage 3 – Design Development (also termed detailed design)

Defined as: Develop the approved concept to finalise the design, outline specifications, cost plan, financial viability and programme for the project.

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- 1. Review documentation programme with principal consultant and other consultants involved.
- 2. Attend design and consultants' meetings.
- 3. Incorporate client's and authorities' detailed requirements into the design.
- 4. Incorporate other consultants' designs and requirements into the design.
- 5. Prepare design development drawings including draft technical details and specifications.
- 6. Review and evaluate design and outline specification and exercise cost control.
- 7. Prepare detailed estimates of construction cost.
- 8. Liaise, co-operate and provide necessary information to the principal consultant and other consultants involved.
- 9. Submit the necessary design documentation to local and other authorities for approval.

Deliverables will typically include:

- design development drawings
- outline specifications
- local and other authority submission drawings and reports
- detailed estimates of construction costs.
- 3.2.4 Stage 4 Documentation and Procurement

Defined as: Prepare procurement and construction documentation, confirm and implement the procurement strategies and procedures for effective and timeous procurement of necessary resources for execution of the project.

- 1. Attend design and consultants' meetings.
- 2. Prepare specifications and preambles for the works.
- 3. Accommodate services design.
- Check cost estimates and adjust designs and documents, if necessary, to remain within budget.

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- 5. Formulate the procurement strategy for contractors or assist the principal consultant where relevant.
- 6. Prepare documentation for contractor procurement.
- 7. Review designs, drawings and schedules for compliance with approved budget.
- 8. Call for tenders and/or negotiation of prices and/or assist the principal consultant or quantity surveyor where relevant.
- 9. Liaise, co-operate and provide necessary information to the principal consultant and the other consultants as required.
- 10. Evaluate tenders.
- 11. Prepare contract documentation for signature.
- 12. Assess samples and products for compliance and design intent.
- 13. Assist in pricing, documentation and tender evaluation as required when the detailed services for these activities are provided by others.

Deliverables will typically include:

- specifications
- services co-ordination
- working drawings
- budget construction cost
- tender documentation
- tender evaluation report
- tender recommendations
- priced contract documentation.

3.2.5 Stage 5 – Contract Administration and Inspection

Defined as: Manage, administer and monitor the construction contracts and processes including preparation and coordination of procedures and documentation to facilitate practical completion of the works.

1. Attend site handover.

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- Issue construction documentation in accordance with the documentation schedule including, in the case of structural engineering, reinforcing bending schedules and detailing, and specifications of structural steel sections and connections.
- 3. Carry out contract administration procedures in terms of the contract.
- 4. Prepare schedules of predicted cash flow.
- 5. Prepare pro-active estimates of proposed variations for client decision-making.
- 6. Attend regular site, technical and progress meetings.
- Inspect the works for conformity to contract documentation as described under Clause 3.3.2.
- 8. Review the outputs of quality assurance procedures and advise the contractor and client on adequacy and need for additional controls, inspections and testing.
- 9. Adjudicate and resolve financial claims by contractors.
- 10. Assist in the resolution of contractual claims by the contractor.
- 11. Establish and maintain a financial control system.
- 12. Clarify details and descriptions during construction as required.
- 13. Prepare valuations for payment certificates to be issued by the principal agent.
- 14. Witness and review of all tests and mock-ups carried out on site.
- 15. Check and approve contractor drawings for compliance with contract documents.
- 16. Update and issue drawings register.
- 17. Issue contract instructions as and when required.
- 18. Review and comment on operation and maintenance manuals, guarantee certificates and warranties.
- 19. Inspect the works and issue practical completion and defects lists.
- 20. Arranging for the delivery of all test certificates, including any Certificates of Compliance, statutory and other approvals, and record drawings and operating manuals.

Deliverables will typically include:

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- schedules of predicted cash flow
- construction documentation
- drawing register
- estimates for proposed variations
- contract instructions
- financial control reports
- valuations for payment certificates
- progressive and draft final accounts
- practical completion and defects list
- all statutory certification and certificates of compliance as required by the local and other statutory authorities.

3.2.6 Stage 6 - Close-Out

Defined as: Fulfil and complete the project close-out, including necessary documentation to facilitate effective completion, handover and operation of the project.

- 1. Inspect and verify the rectification of defects.
- Receive, comment and approve relevant payment valuations and completion certificates.
- 3. Prepare and/or procure operations and maintenance manuals, guarantees and warranties.
- 4. Prepare and/or procure as-built drawings and documentation.
- 5. Conclude the final accounts where relevant.

Deliverables will typically include:

- valuations for payment certificates
- works and final completion lists
- operations and maintenance manuals, guarantees and warranties
- as-built drawings and documentation
- final accounts.

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3.3 Additional services

The following services are additional to the normal services provided by the consulting engineer, unless specifically agreed otherwise between the consulting engineer and the client. The agreement on the scope of services and remuneration must be in writing and should, if at all possible, be concluded before the services are rendered.

3.3.1 Additional services pertaining to all stages of the project

- All services related to defining the scope of work, previously carried out under Clause 3.1, planning, studies, investigations and assessments, and that are normally paid for on a time and cost basis.
- 2. Enquiries not directly concerned with the works and its subsequent utilisation.
- 3. Valuation for purchase, sale or leasing of plant, equipment, material, systems, land or buildings or arranging for such valuation.
- 4. Making arrangements for way leaves, servitudes or expropriations.
- 5. Negotiating and arranging for the provision or diversion of services and or infrastructure not forming part of the works.
- 6. Additional work in obtaining the formal approval of the appropriate government departments or public authorities, including the making of such revisions as may be required as a result of decisions of such departments or authorities arising out of changes in policy, undue delay, or other causes beyond the consulting engineer's control.
- Additional work related to monitoring as required by any government departments or authorities to facilitate regulatory approvals and certification (e.g. Mines Health and Safety Act, 29 of 1996).
- Topographical and environmental surveys, analyses, tests and site or foundation or other investigations, model tests, laboratory tests and analyses carried out on behalf of the client.
- Setting out or staking out the works and indicating any boundary beacons and other reference marks.

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- 10. Preparation of drawings for manufacture and installation or detailed checking of such for erection or installation fit.
- 11. Detailed inspection, reviewing and checking of designs and drawings not prepared by the consulting engineer and submitted by any contractor or potential contractor as alternative to those embodied in tender or similar documents prepared by the consulting engineer.
- 12. Inspection and testing, other than on site, of materials and plant, including inspection and testing during manufacture.
- 13. Preparing and setting out particulars and calculations in a form required by any relevant authority.
- 14. Abnormal additional services by or costs to the consulting engineer due to the failure of a contractor or others to perform their required duties adequately and on time.
- 15. Executing or arranging for the periodic monitoring and adjustment of the works, after final handover and completion of construction and commissioning, to optimise or maintain proper functioning of any process or system.
- 16. Investigating or reporting on tariffs or charges leviable by or to the client.
- 17. Advance ordering or reservation of materials and obtaining licences and permits.
- 18. Preparing detailed operating, operation and maintenance manuals.
- 19. Preparing record drawings on designs done by others or related to alterations to existing works.
- 20. Additional services, duties and/or work resulting from project scope changes, alterations and/or instructions by the client, or his duly authorised agents, requiring the consulting engineer to advice upon, review, adapt and/or alter his completed designs and/or any other documentation and/or change the scope of his services and/or duties. Such additional services are subject to agreement in writing between the consulting engineer and the client prior to the execution thereof.
- 21. Work and or services related to targeted procurement that could entail, but is not necessarily limited to any or all of the following:

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- Incorporation of any targeted participation goals, the measuring of key participation indicators.
- The selection, appointment and administration of participation.
- Auditing compliance to the above by any contractors and/or professional consultant.
- 22. Exceptional arrangements, communication, facilitation and agreements with any stakeholders other than the client and contractors appointed for the works on which the consulting engineer provides services.
- 23. Any other additional services, of whatever nature, specifically agreed to in writing between the consulting engineer and the client.
- 24. Building Information Modelling (BIM) compliancy. Where BIM is a specified project requirement, the appointment a BIM manager, the preparation and approval by the client of the BIM Execution Plan and the additional effort over conventional projects to set up the project to be fully BIM compliant as required by the client.
- 3.3.2 Construction monitoring

Quality assurance during construction refers to the engineering activities that are implemented to demonstrate to the client that works are highly likely to meet the requirements. This is achieved through a combination of the quality control processes that are put in place by the contractor to control its outputs and the inspection and acceptance testing that is carried out by the consulting engineer to confirm conformance prior to certification. While the contractor takes the ultimate responsibility for quality and meeting the design requirements, the purpose of a quality assurance plan and related construction monitoring is to inspect and satisfy the client and the consulting engineer that the risk of these requirements not being met is acceptable.

This means that the client and consulting engineer should agree a satisfactory arrangement in respect of construction monitoring that suits the type of work, the project location and the duration of the critical aspects of the works. Disagreement regarding the required level of construction monitoring should not be taken lightly and the parties should carefully consider the consequences of non-compliance and related responsibilities, bearing in mind that the CONTROLLED DISCLOSURE

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consulting engineer has a duty of care, while the client should strive to ensure quality and minimise life-cycle costs.

The level of construction monitoring and the frequency and duration of the site visits must be agreed with the client prior to commencement of the works and should be recorded in the agreement with the client. The level of construction monitoring and activities related to the quality assurance plan may change during the course of the works to reduce quality related risks and this will require an amendment of the agreement.

Level 1 construction monitoring services may suffice for simple projects where more regular inspections are not required other than during critical stages of the works with less frequent visits once the portion of the works in which the consulting engineer is involved has largely been completed. In most situations, however, more regular construction monitoring is required for quality assurance and certification. Refer to 3.2.2 (7) below.

Aspects that need to be considered when determining the degree to which additional construction monitoring services are required are:

- the type of work
- the discipline of the work (civil, structural, mechanical, electrical etc)
- the competency of the contractor and its related quality control system
- the speed with which critical elements of the work are covered
- the consequences of non-compliance
- the timing and ease of subsequent detection and rectification of non-compliance.

Arising from the above, three levels of construction monitoring may be defined and described, as follows:

(a) Level 1: Periodic Construction Monitoring

The consulting engineer's staff must:

(i) visit the works at a frequency agreed with the client or at on-call basis at a notice time agreed with the contractor and the client, with extra visits for works completion

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inspections, provision of design/technical clarifications and inspections for works defects lists

- (ii) review random samples of material and work procedures, for conformity to contract documentation, and review random samples of important completed work prior to covering up, or on completion, as appropriate.
- (b) Level 2: Part-time Construction Monitoring

The consulting engineer's staff, or part-time construction monitoring staff must:

- (i) regularly visit the site at a frequency that may vary during the course of the project, and such visits may be daily or weekly, according to the project demands; the frequency and duration of site visits are must be agreed in writing between the client and the consulting engineer prior to commencement of the services
- (ii) review regular samples of materials and work procedures, for conformity to contract documentation, provide design/ technical clarifications where required and review regular samples of important completed work prior to covering up, or on completion, as appropriate
- (iii) where the consulting engineer is the sole professional service provider or principal agent, carry out such administration of the project as is necessary on behalf of the client.
- (c) **Level 3:** Full-time Construction Monitoring (full-time staff resident on site for the duration of the works and paid for by the client as an additional service)

The full-time construction monitoring staff must:

- (i) maintain a full-time presence on site to constantly review samples of materials and work procedures, for conformity to contract documentation, provide design/ technical clarifications and review completed work prior to covering up, or on completion, as appropriate
- (ii) assist with the preparation of as-built records and drawings to the extent required in the agreement with the client

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(iii) where the consulting engineer is the sole professional service provider or principal agent, carry out such administration of the project as is necessary on behalf of the client

Level 1 construction monitoring is considered to be a basic level of service and is only suitable for the most simple, routine projects. The client must be aware of the risk associated with Level 1 construction monitoring because the consulting engineer is often unable to witness or inspect work prior to its being covered up and is not liable for hidden defects. On any project where a significant portion of the work is rapidly covered, such as projects involving underground services and building projects like secondary healthcare, tourism and leisure, industrial, commercial, retail and office buildings with complex electrical and mechanical works, Level 2 or Level 3 construction monitoring is required.

Where Level 1 construction monitoring is applied on a project and, for reasons beyond the control of the consulting engineer, additional site visits in excess of the frequency initially agreed with the client or are on-call basis, these must be undertaken by the consulting engineer and will be regarded as an additional service.

Most engineering work typically requires at least Level 2 monitoring to enable the engineer to inspect work prior to its being covered up. Examples may include witnessing the position of reinforcing steel prior to pouring concrete, underground installations or installations above false ceilings. The consulting engineer may also require acceptance inspection and testing of various elements on a regular basis depending on the quality controls instituted by the contractor as part of the quality assurance plan. Level 2 construction monitoring does not allow for a full-time presence on site and so the consulting engineer and construction monitoring staff are unable to witness/inspect all work prior to its being covered up.

In the case of most civil works where all materials and elements are generally regarded as being critical and are covered on a daily basis, work is monitored on a continuous basis for the duration of the works and Level 3 monitoring usually applies. This level is also applied to the structural works that are included in such projects.

In some instances, staff members are made available by the client to assist in construction monitoring, in which cases, these persons should report to and take instructions from the

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consulting engineer or an authorised representative of the consulting engineer to avoid mixed messages being passed to the contractor.

3.3.3 Occupational Health and Safety Act, 85 of 1993

Should the client require the consulting engineer to undertake duties falling under the Occupational Health and Safety Act, 85 of 1993 and the Construction Regulations in terms thereof, on behalf of the client, the additional services may include the following:

- The consulting engineer must arrange, formally and in writing, for the contractor to provide documentary evidence of compliance with all the requirements of the Occupational Health and Safety Act, 85 of 1993.
- The consulting engineer must execute the duties of the client, as his appointed agent, as contemplated in the Construction Regulations to the Occupational Health and Safety Act, 85 of 1993.

3.3.4 Quality assurance system

Where the client requires a quality management system or quality assurance services, over and above construction monitoring services, to be applied to the project, these are in addition to normal services provided by the consulting engineer and must be specifically defined and separately agreed in writing prior to commencement thereof.

3.3.5 Lead consulting engineer

Should the client require the consulting engineer to assume the leadership of a joint venture, consortium or team of consulting engineers of the same discipline, prescribed or requested by the client, the additional services may include the following:

- Responsibility for the overall administration of all sections of the services, including those portions of the services, which fall within the ambit of the other consulting engineers.
- Responsibility for the overall co-ordination, programming of design and financial control of all the works included in the services.
- Processing certificates or recommendations for payment of contractors.

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3.3.6 Engineering management services (principal consultant)

Should the client require the consulting engineer to undertake duties of an engineering management nature on behalf of the client, the additional services will include the following:

Stage 1 Services – Inception

- 1. Facilitate development of a clear project brief.
- 2. Establish the procurement policy for the project.
- 3. Assist the client in the procurement of necessary and appropriate other consultants including the clear definition of their roles and responsibilities.
- 4. Establish in conjunction with the client, other consultants and all relevant authorities, the site characteristics, rights and constraints for the proper design of the intended project.
- 5. Define the consultant's scope of work and services.
- 6. Conclude the terms of the agreement with the client.
- 7. Facilitate a schedule of the required consents and approvals.
- 8. Prepare, co-ordinate and monitor a project initiation programme.
- 9. Facilitate client approval of all Stage 1 documentation.

Typical deliverables:

- Project brief
- Agreed scope of work
- Agreed services
- Project procurement policy
- Signed agreements
- Integrated schedule of consents and approvals
- Project initiation programme
- Record of all meetings.

Stage 2 services – Concept and Viability

1. Assist the client to procure the other consultants.

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- 2. Advise the client on the requirement to appoint a health and safety consultant.
- Communicate the project brief to the other consultants and monitor the development of the concept and viability.
- 4. Agree format and procedures for cost control and reporting by the other consultants.
- 5. Prepare a documentation programme and indicative construction programme
- 6. Manage and integrate the concept and viability documentation for presentation to the client for approval.
- 7. Facilitate approval of the concept and viability by the client.
- 8. Facilitate approval of the concept and viability by statutory authorities.

Typical deliverables:

- Signed consultant/client agreements
- Indicative documentation programme and construction programme
- Approval by the client to proceed to Stage 3.

Stage 3 Services – Design Development

- 1. Agree and implement communication processes and procedures for the design development of the project.
- 2. Assist the client to procure the necessary other consultants including the clear definition of their roles and responsibilities.
- 3. Prepare, co-ordinate, agree and monitor a detailed design and documentation programme.
- 4. Conduct and record consultants' and management meetings.
- 5. Facilitate input required by health and safety consultant.
- 6. Facilitate design reviews for compliance and cost control.
- 7. Facilitate timeous technical co-ordination.
- 8. Facilitate client approval of all Stage 3 documentation.

Typical deliverables:

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- Additional signed client/consultant agreements
- Documentation programme
- Record of all meetings
- Approval by the client to proceed to Stage 4.

Stage 4 services – Documentation and Procurement

- 1. Recommend and agree procurement strategy for contractors, subcontractors and suppliers with the client and the other consultants.
- 2. Prepare and agree the procurement programme.
- 3. Advise the client, in conjunction with the other consultants, on the appropriate insurance.
- 4. Co-ordinate and monitor preparation of procurement documentation by consultants in accordance with the project procurement programme.
- 5. Manage procurement process and recommend contractors for approval by the client.
- 6. Agree the format and procedures for monitoring and control by the quantity surveyor of the cost of the works.
- 7. Co-ordinate and assemble the contract documentation for signature.

Typical deliverables:

- Procurement programme
- Tender/contract conditions
- Record of all meetings
- Obtain approval by the client of tender recommendation(s)
- Contract documentation for signature.

Stage 5 services – Contract Administration and Inspection

- 1. Arrange site handover to the contractor.
- 2. Establish construction documentation issue process.
- 3. Agree and monitor issue and distribution of construction documentation.
- 4. Instruct the contractor on behalf of the client to appoint subcontractors.

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- 5. Conduct and record regular site meetings.
- 6. Monitor, review and approve the preparation of the construction programme by the contractor.
- 7. Regularly monitor performance of the contractor against the construction programme.
- 8. Adjudicate entitlements that arise from changes required to the construction programme.
- 9. Receive, co-ordinate and monitor approval of all contract documentation provided by contractors.
- 10. Agree quality assurance procedures and monitor implementation thereof by the other consultants and the contractors.
- 11. Monitor preparation and auditing of the contractor's health and safety plan and approval thereof by the health and safety consultant.
- 12. Monitor preparation of the environmental management plan by the consultant.
- 13. Establish procedures for monitoring scope and cost variations.
- 14. Monitor, review, approve and issue certificates.
- 15. Receive, review and adjudicate any contractual claims.
- 16. Monitor preparation of financial control reports by the other consultants.
- 17. Prepare and submit progress reports.
- 18. Co-ordinate, monitor and issue practical completion lists and the certificate of practical completion.
- 19. Facilitate and expedite receipt of the occupation certificate where relevant.

Typical deliverables:

- Signed contracts
- Approved construction programme
- Construction documentation
- Payment certificates
- Progress reports
- Record of meetings

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Certificates of practical completion.

Stage 6 services – Close-Out

- 1. Co-ordinate and monitor rectification of defects.
- 2. Manage procurement of operations and maintenance manuals, guarantees and warranties.
- 3. Manage preparation of as-built drawings and documentation.
- 4. Manage procurement of outstanding statutory certificates.
- 5. Monitor, review and issue payment certificates.
- 6. Issue completion certificates.
- 7. Manage agreement of final accounts.
- 8. Prepare and present the project close-out report.

Typical deliverables:

- Completion certificates
- Record of necessary meetings
- Project close-out report.

3.3.7 Mediation, arbitration and litigation proceedings and similar services

Where the client requires the consulting engineer to, on his or her behalf, perform the services listed hereunder or similar work, the extent thereof and remuneration are subject to agreement between the client and the consulting engineer:

- Dealing with matters of law, obtaining parliamentary or other statutory approval, licenses or permits.
- Assisting with or participating in contemplated or actual mediation, arbitration or litigation proceedings.
- Officiating at or attending courts and commissions of enquiry, select committees and similar bodies convened by statute, regulation or decree.

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3.3.8 Principal agent of the client

When a consulting engineer is, in addition to his normal functions as consulting engineer, appointed as the client's principal agent for the purposes of procurement and construction on a project, the consulting engineer is also responsible for the following:

Stage 3 services – Design Development

1. Prepare, co-ordinate, agree and monitor a detailed design and documentation programme.

Typical deliverables:

• Detailed design and documentation programme.

Stage 4 services – Documentation and Procurement

- 1. Recommend and agree procurement strategy for contractors, subcontractors and suppliers with the client and the other consultants.
- 2. Prepare and agree the procurement programme.
- 3. Advise the client, in conjunction with the other consultants on appropriate insurance.
- 4. Manage procurement process and recommended contractors for approval by the client.
- 5. Agree the format and procedures for monitoring and control by the quantity surveyor of the cost of the works.
- 6. Co-ordinate and assemble the contract documentation for signature.

Typical deliverables:

- Procurement programme
- Tender/contract conditions
- Contract documentation for signature.

Stage 5 services – Construction Administration

- 1. Arrange site handover to the contractor.
- 2. Establish construction documentation issue process.

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- 3. Agree and monitor issue and distribution of construction documentation.
- 4. Instruct the contractor on behalf of the client to appoint subcontractors.
- 5. Conduct and record regular site meetings.
- 6. Review, approve and monitor the preparation of the construction programme by the contractor.
- 7. Regularly monitor performance of the contractor against the construction programme.
- 8. Adjudicate entitlements that arise from charges required to the construction programme.
- 9. Receive, co-ordinate and monitor approval of all contract documentation provided by contractors.
- Agree quality assurance procedures and monitor implementation thereof by the other consultants and the contractors
- 11. Monitor preparation and auditing of the contractor's health and safety plan and approval thereof by the health and safety consultant.
- 12. Monitor preparation of the environmental management plan by the environmental consultant.
- 13. Establish procedures for monitoring scope and cost variations.
- 14. Monitor, review, approve and issue certificates.
- 15. Receive, review and adjudicate any contractual claims.
- 16. Monitor preparation of financial control reports by the other consultants.
- 17. Prepare and submit progress reports.
- 18. Co-ordinate, monitor and issue practical completion lists and the certificate of practical completion.

Typical deliverables:

- Signed contracts
- Approved construction programme
- Construction documentation
- Payment certificates
- Progress reports

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- Record of meetings
- Certificates of practical completion
- Facilitate and expedite receipt of occupation certificates.

Stage 6 services – Close-Out

- 1. Co-ordinate and monitor rectification of defects.
- 2. Manage procurement of operations and maintenance manuals, guarantees and warranties.
- 3. Manage preparation of as-built drawings and documentation.
- 4. Manage procurement of outstanding statutory certificates.
- 5. Monitor, review and issue payment certificates.
- 6. Issue completion certificates.
- 7. Manage agreement of final accounts.
- 8. Prepare and present the project close-out report.

Typical deliverables:

- Completion certificates
- Record of necessary meetings
- Project close-out report.

4. GUIDELINE TARIFF OF FEES

4.1 Application of tariff of fees

The guideline tariff of fees contained in this Schedule applies in respect of the services set out in clause 3.

The client should remunerate the consulting engineer, for the services rendered, on the basis of clauses 4.2 to 4.5. In cases where the client and consulting engineer have agreed that clauses 4.2 and 4.3 are not applicable, payment should be on the basis of clause 4.4 or as agreed according to clause 4.

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The client must reimburse the consulting engineer for all expenses and costs incurred in terms of clause 4.5 in performing his or her services, irrespective of whether fees are charged in terms of clauses 4.2 and 4.3 or clause 4.4, as well as for all costs incurred on behalf, and with the approval, of the client.

While the tariff of fees contained in this Schedule can be applied to many projects, the factors that influence the fees to be paid for design services on a project are complex and depend on a number of contributing factors These contributing factors that should be taken into account may include, among others, all or any of the following:

- (a) Project complexity: Projects may range from relatively simple projects where the designs are based on well established, common practices to more complex projects where the works call for the application of new, unusual or untried techniques, designs, systems or applications.
- (b) Monetary value of the works: This may range from a situation where the value of the work is very high relative to the services being rendered to a project where the value of the works is abnormally low relative to the services required from the consulting engineer.
- (c) Time duration: This may involve projects where the works are executed over appreciably shorter or longer periods than would normally be expected for any of the stages defined in 3.1.
- (d) Level of responsibility, liability and risk: These may range from relatively low levels of responsibility and/or risks to projects with unusually high responsibilities and/or risks that are expected to be carried by the consulting engineer.
- (e) Level of expertise, qualifications, skills and experience: Some works do not require a high degree of expertise while other works may require more specialised expertise or substantial skills and experience that cost more to develop and retain.
- (f) Level of technology required and changes in technology that may influence the costs of the services provided.
- (g) Whether aspects related to labour intensive works need to be considered in the design. CONTROLLED DISCLOSURE

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- (h) Level of effort: Some projects do not call for substantial effort as the works can be designed without extensive investigations or field measurements while others may call for unusually high effort on the part of the consulting engineer because of, for example, research required or integration with existing works or repairs to existing infrastructure where the status quo needs to be investigated in considerable detail and these need to be accommodated within the design.
- (i) Potential value added: In some instances, the design, no matter how sophisticated will not add much value to the overall project while in other cases greater design optimisation can lead to considerable savings in capital, maintenance or operations costs, or add value to the final project.
- (j) Client requirements: Some clients have relatively few requirements and/or many standard details and the consulting engineer's designs are accepted at face value. Other clients require considerable details to be investigated during design development to satisfy their own, often complex, internal processes.
- (k) Business strategy: Some firms may decide to offer a low price to enter a market segment at a low cost or to keep employees busy while waiting for economic upswings.
- (I) Project definition: In some projects, the design concept and scope is self-evident and requires little further investigation or analysis of options, while in other projects, the design development requires extensive analysis and testing of various options.

Combinations of one or more of the above factors may result in a substantial adjustment of the tariff that is required to fairly compensate the consulting engineer and this adjustment factor should be negotiated in good faith by both parties.

Agreement on any adjustment of or special fees should be reached at the time of the consulting engineer's engagement or as soon after as circumstances warrant, such as is practically possible, but in all cases, prior to the consulting engineer rendering services that may be affected.

The fee is determined on the information provided at the time of procurement, particularly in respect of the scope of work, scope of services, works budget and expected project

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duration. Any subsequent changes, including unforeseen changes to the project situation and engineering effort, are regarded as a trigger for an adjustment of the fee.

In certain instances, the fee may be expressed as a lump sum, in which case, the amount will be subject to change as described below.

The project budget is relied upon when determining the percentage or lump sum fee, and where the final cost of the works varies by more than 15% from the value on which the fee is determined, the fee may be adjusted.

In certain project types the scope of work may include full services for some elements of the work and limited services for other elements. For example, in some situations the consulting engineer may be asked to provide advice, design review and construction monitoring related to elements designed and detailed by others. The fees for such limited services are subject to agreement between the client and consulting engineer and may be determined on the basis of time and cost.

Where the normal services relate to more than one of the disciplines of consulting engineering contemplated in clauses 4.2.1 to 4.2.8, namely civil, structural, mechanical, electrical or electronic engineering services, a separate fee for services in each discipline should be calculated in accordance with the relevant clause.

Where at the instance and with the consent of the client, the works are undertaken on separate non-contiguous sites, continuity is interrupted or the works are unusually fragmented or constructed as separately documented phases or sections, the fee for normal services is:

- (a) the sum of the fees calculated separately for each site, contract, phase or section as if they were separate works; or
- (b) a fee agreed to between the client and the consulting engineer and which fee lies between the fee calculated on the total cost of the works and the sum of the fees contemplated inclause (a) above.

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For the calculation of fees, "Duplication of works" is defined as the re-use of designs, drawings and details done by a consultant to duplicate a complete unit (e.g. a building or a bridge).

The fee for services provided in the report stage is calculated on a time basis.

The following fees may be claimed after each stage of services or monthly or as agreed between the consulting engineer and the client:

- (a) Percentage fees determined on the basis of the cost of the works prevailing at the time of the fee calculation and pro-rata to the completed services, or a portion of the total fee based on completion of the stages along the lines indicated in 4.2.9.
- (b) Time based fees applicable when the services were rendered.

Disbursements as set out in clause (3) may be claimed monthly.

4.2 Fees for normal services

In the following tables, the fee guidelines consist of the sum of a primary and secondary fee depending on the cost of the works. Alternatively, if the scope of services and scope of work are relatively well defined and a reasonable budget of the cost of works is available, then the client and consultant can agree a single percentage fee based on this budgeted cost and the overall fee is calculated using the tables below as well as any relevant complexity factors.

For example, if a civil engineering project involves alterations to a structure with complex structural engineering and a reasonable expectation of the cost of the works is R31 million, then the fee calculated using the tables would be:

- Fee from 4.2.1: = R1 857 000 + 9.5% * R11 934 000 = R2 990 730 for normal civil works. Assuming 40% of the works is reinforced concrete and structural steel amounting to R12.4 million.
- Plus, R430 000 + 5% * R3 053 000 = R582 650 additional for structures.
- Therefore, total = R3 573 380.

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 Multiplied by a complexity factor for additions to existing buildings of 1.25 = R4 466 725 which is equal to a percentage fee of: R4 466 725 / R31 000 000 = 14.41%

Alternatively, consider the example of a relatively simple rural road project with a reasonable budget value of R21 000 000. Then the fee calculated using the tables would be:

- Fee from 4.2.1: = R 1 857 000 + 9.5% * R1 934 000 = R2 040 730.
- Multiplied by a complexity factor of 0.85 for rural roads = R1 734 620 which is equal to a
 percentage fee of: R1 734 620 / R21 000 000 = 8.26 %.

Fee negotiations would typically commence using these starting values and judgement regarding project complexity to arrive at a finally agreed percentage fee. The fee amount to be paid will generally be based upon the final cost of works or any other suitably agreed arrangement.

- 4.2.1 Civil and structural engineering services pertaining to engineering projects
- (a) The basic fee for normal services in the disciplines of civil and structural engineering, pertaining to Engineering Projects, is determined from Table 1 below. The fee is the sum of the primary fee and the secondary fee applicable to the specific cost of the works in respect of which the services were rendered on the project excluding the report stage described in clause 3.2.1, which is normally reimbursed on a time basis in terms of clause 4.4.

Table 1: Civil and Structu	ral Engineering	Services pertaini	na to En	aineerina Pro	iects
				3 3 3	

Cost of the Works		Basis of Fee Calculation	
For projects up to R850 000		Lump Sum or Ti	me Basis
Where the cost of the works:			
Exceeds	But does not exceed	Primary Fee	Secondary Fee
R850 000	R1 899 000	R106 300	15.0%
R1 899 000	R9 347 000	R237 400	12.0%
R9 347 000	R19 066 000	R982 400	10.5%

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	·				
R19 (066 000	R47 3	72 000	R1 857 000	9.5%
R47 3	372 000	R94 9	60 000	R4 121 400	7.0%
R94 9	960 000	R572 0	00 000	R7 065 000	6.5%

R33 233 200

6.0%

The following additional fee is typically applicable to the value of the reinforced concrete and structural steel portions of the works, inclusive of the costs of concrete, reinforcing, formwork, structural steel work and any pro-rata preliminary and general amounts. Where structures of identical design are repeated on the same project, the combined cost is normally cumulated for the determination of the cost of the reinforced concrete and structural steel works. In cases where structures require individual design, a separate additional fee is normally calculated for each structure based on the cost of the reinforced concrete and or structural steel work for that particular structure. The additional fee is the sum of the primary fee and the secondary fee applicable to the specific cost of the works in respect of which the services were rendered on the project as shown below.

Cost of the Works		Basis of Fee Calc	ulation
For projects up to R850 000	projects up to R850 000 Lump Sum or Time Basis		ne Basis
Where the cost of the works:			Secondary
Exceeds	But does not exceed	Primary Fee	Fee
R850 000	R1 899 000	R42 500	6.0%
R1 899 000	R9 347 000	R95 000	5.5%
R 9 347 000	R19 066 000	R430 000	5.0%
R19 066 000	R47 372 000	R818 000	3.5%
R47 372 000	R94 960 000	R1 667 500	3.0%
R94 960 000	R572 000 000	R2 620 900	2.5%
R572 000 000		R9 781 200	2.5%

Table 2: Additional design fee on reinforced concrete and structural steel

R572 000 000

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- (b) To calculate the fee for railway track work in terms of this item, 50 per cent of the cost of the permanent way materials is normally excluded from the cost of the works in view of the limited design input normally required for these elements, but the full cost of ballast and equipment specially designed by the consultant is normally included in the cost of the works.
- (c) For normal services relating to a description of the works mentioned in the first column of the following table, the proportion of the basic fee relating to the specific item calculated in terms of clause 4.2.1(a) and (b) is normally multiplied by the category factors mentioned against that description in the second column of the table. In cases more than one of the descriptions below applies, the effective factor will typically be the product of the factors involved. These factors do not apply when fees are a lump sum or on a time basis.
- (d) In the case of road works, where the road traverses both rural and urban areas, an adjustment pro-rata to the length of road in rural and urban area is normally made.
- (e) In the case of road rehabilitation, a combination of factors applies depending on the situation of the road (rural or urban) and the category factor for alterations to existing works.

Description of the Works	Typical factor by which basic fee is multiplied
Single Carriageway Rural roads in flat terrain, excluding bridges	0.85
Rural freeways and dual carriageways in flat terrain, excluding bridges	0.95
Single Carriageway Rural roads in mountainous terrain, excluding bridges	1.15
Rural freeways and dual carriageways in mountainous terrain excluding bridges	1.25
Freeways, single carriageways and dual carriageways through existing peri- urban areas, excluding bridges	1.00
Single Carriageways through existing urban areas	1.15

Table 2A: Typical factor by which basic fee is multiplied

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Description of the Works	Typical factor by which basic fee is multiplied
Freeways and dual carriageways through existing urban areas	1.25
Gravel roads: Primary roads, Secondary roads, Informal roads	1.25 to 1.50
	1.00 to 1.25
	0.75 to 1.00
Roads maintenance and rehabilitation projects, excluding bridges	1.15
Roads upgrading (pavement and/or alignment) projects excluding bridges	1.25
Water and wastewater treatment works	1.25
Services (excluding roads) for existing informal settlements including roads and to reduced standards or supplies	1.25 to 1.50
Water and sanitation in rural areas	1.35
Alterations to existing works. (Only applicable to the fees on the portion or section of works affected.)	1.25
Mass concrete foundations, brickwork and cladding designed and detailed by the consulting engineer. (Only applicable to the design portion of the fees on such works.)	0.33
Duplication of works. (Only applicable to the design portion of the fees on duplicated works)	0.25

4.2.2 Civil engineering services pertaining to building projects

(a) The basic fee for normal services in the discipline of civil engineering pertaining to building projects is determined from Table 3 below. The fee is the sum of the primary fee and the secondary fee applicable to the specific cost of the works in respect of which the services were rendered on the project excluding the report stage described in clause 3.2.1, which is normally reimbursed on a time basis in terms of clause 4.4.

Table 3: Civil engineering services pertaining to building projects

Cost of the Works	Basis of Fee Calculation	
For projects up to R850 000	Lump Sum or Time Basis	
Where the cost of the works:	Primary Fee	Secondary

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Exceeds	But does not exceed		Fee
R850 000	R1 899 000	R106 300	15.0%
R1 899 000	R9 347 000	R237 400	12.0%
R9 347 000	R19 066 000	R982 400	10.5%
R19 066 000	R47 372 000	R1 857 000	10.0%
R47 372 000	R94 960 000	R4 121 400	9.5%
R 94 960 000	R572 000 000	R7 454 400	9.0%
R572 000 000		R40 840 800	9.0%

(b) For normal services relating to a description of the works mentioned in the first column of Table 3A, the proportion of the basic fee relating to the specific item calculated in terms of clause 4.2.2(a) is normally multiplied by the category factor mentioned against that description in the second column of the table. In case more than one of the descriptions below applies, the effective factor will typically be the product of the factors involved. These factors do not apply when fees are a lump sum or on a time basis.

Table 3A: Typical factor by which basic fee is multiplied Description of the Works Typical factor by which basic fee is multiplied Alterations to existing works. (Only applicable to the fees on the portion or section of works affected.) 1.25

 Internal water and drainage for buildings upon specific agreement with the client to render such services.
 1.25

 Duplication of works. (Only applicable to the design portion of the fees on duplicated works.)
 0.25

4.2.3 Structural engineering services pertaining to building projects

(a) The basic fee for normal services in the discipline of structural engineering pertaining to building projects is determined from Table 4 below. The fee is the sum of the primary fee and the secondary fee applicable to the specific cost of the works in respect of which the services were rendered on the project excluding the report stage described in clause 3.2.1 which shall be reimbursed on a time basis in terms of clause 4.4.

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Table 4: Structural engineering services pertaining to building projects

Cost of the Works	ost of the Works Basis of Fee Calculation		tion
For projects up to R850 0	jects up to R850 000 Lump Sum or Time Basis		Basis
Where the cost of the wor	rks:		
Exceeds	But does not exceed	Primary Fee	Secondary Fee
R850 000	R1 899 000	R106 300	15.0%
R1 899 000	R 9 347 000	R237 400	12.0%
R9 347 000	R19 066 000	R982 400	10.5%
R19 066 000	R47 372 000	R1 857 000	10.0%
R47 372 000	R94 960 000	R4 121 400	9.5%
R94 960 000	R572 000 000	R7 454 400	9.0%
R572 000 000		R40 840 800	9.0%

(b) For normal services relating to a description of the works mentioned in the first column of Table 4A, the proportion of the basic fee relating to the specific item calculated in terms of clause 4.2.3(a) is normally multiplied by the category factor mentioned against that description in the second column of the table. In case more than one of the descriptions below applies, the effective factor will typically be the product of the factors involved. These factors do not apply when fees are a lump sum or on a time basis.

Table 4A: Typical factor by which basic fee is multiplied

Description of the Works	Typical factor by which basic fee is multiplied
Alterations to existing works. (Only applicable to the fees on the portion or section of works affected.)	1.25
Water supply and drainage systems, inside buildings.	1.25
Duplication of works. (Only applicable to the design portion of the fees on duplicated works.)	0.25

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4.2.4 Mechanical engineering services pertaining to engineering projects

(a) The basic fee for normal services in the discipline of mechanical engineering, pertaining to Engineering Projects, is determined from the table below. The fee is the sum of the primary fee and the secondary fee applicable to the specific cost of the works in respect of which the services were rendered on the project excluding the report stage described in clause 3.2.1 which shall be reimbursed on a time basis in terms of clause 4.4.

Cost of the Works Basis of Fee Calculation		lation	
For projects up to R850 000		Lump Sum or Time	e Basis
Where the cost of the works:			Secondarv
Exceeds	But does not exceed	Primary Fee	Fee
R850 000	R1 899 000	R106 300	15.0%
R1 899 000	R9 347 000	R237 400	12.0%
R9 347 000	R19 066 000	R982 400	9.5%
R19 066 000	R47 372 000	R1 759 800	8.5%
R47 372 000	R94 960 000	R3 742 400	7.0%
R94 960 000	R572 000 000	R6 590 200	6.5%
R572 000 000		R32 832 800	6.5%

Table 5: Mechanical Engineering Services pertaining to Engineering Projects

(b) For normal services relating to a description of the works mentioned in the first column of Table 5A, the proportion of the basic fee relating to the specific item calculated in terms of clause 4.2.4(a) is normally multiplied by the category factor mentioned against that description in the second column of the table. In case more than one of the descriptions below applies, the effective factor will typically be the CONTROLLED DISCLOSURE

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product of the factors involved. These factors do not apply when fees are a lump sum or on a time basis.

Table 5A: Typical factor by which basic fee is multiplied

Description of the Works	Typical factor by which basic fee is multiplied
Alterations to existing works. (Only applicable to the fees on the portion or section of works affected.)	1.25
Water supply and drainage systems and fire water systems.	1.25
Duplication of works. (Only applicable to the design portion of the fees on duplicated works.)	0.25

4.2.5 Electrical engineering services pertaining to engineering projects

(a) The basic fee for normal services in the discipline of electrical engineering pertaining to engineering projects is determined from Table 6 below. The fee is the sum of the primary fee and the secondary fee applicable to the specific cost of the works in respect of which the services were rendered on the project excluding the report stage described in clause 3.2.1 which shall be reimbursed on a time basis in terms of clause 4.4.

Table 6: Electrical engineering services pertaining to engineering projects

Cost of the Works		Basis of Fee Calculation	
For projects up to R850 0	00	Lump Sum or Time	Basis
Where the cost of the wo	rks:		
Exceeds	But does not exceed	Primary Fee	Secondary Fee
R850 000	R1 899 000	R106 300	15.0%
R1 899 000	R9 347 000	R237 400	12.0%
R9 347 000	R19 066 000	R982 400	9.5%
R19 066 000	R47 372 000	R1 759 800	8.5%
R47 372 000	R94 960 000	R3 742 400	7.0%

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(b) For normal services relating to a description of the works mentioned in the first column of Table 6A, the proportion of the basic fee relating to the specific item calculated in terms of clause 4.2.5(a) is normally multiplied by the category factor mentioned against that description in the second column of the table. In case more than one of the descriptions below applies, the effective factor will typically be the product of the factors involved. These factors do not apply when fees are a lump sum or on a time basis.

Table 6A: Electrical Engineering Services pertaining to Engineering Projects

Description of the Works	Typical factor by which basic fee is multiplied
Alterations to existing works. (Only applicable to the fees on the portion or section of works affected.)	1.25
Duplication of works. (Only applicable to the design portion of the fees on duplicated works.)	0.25

4.2.6 Mechanical engineering pertaining to building projects

(a) The basic fee for normal services in the discipline of mechanical engineering or wet services pertaining to building projects is determined from Table 7 below. The fee is the sum of the primary fee and the secondary fee applicable to the specific cost of the works in respect of which the services were rendered on the project excluding the report stage described in clause 3.2.1 which shall be reimbursed on a time basis in terms of clause 4.4.

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Table 7: Mechanical engineering services pertaining to building projects

Cost of the Works Basis of Fee Calculation		ation	
For projects up to R850 0	or projects up to R850 000 Lump Sum or Time Basis		Basis
Where the cost of the wor	ˈks:		
Exceeds	But does not exceed	Primary Fee	Secondary Fee
R850 000	R1 899 000	R127 500	18.0%
R1 899 000	R9 347 000	R284 900	15.0%
R9 347 000	R19 066 000	R1 224 500	12.5%
R19 066 000	R47 372 000	R2 236 400	11.5%
R47 372 000	R94 960 000	R4 926 700	11.0%
R94 960 000	R572 000 000	R9 201 700	10.0%
R572 000 000		R49 764 000	10.0%

(b) For normal services relating to a description of the works mentioned in the first column of Table 7A, the proportion of the basic fee relating to the specific item calculated in terms of clause 4.2.6(a) is normally multiplied by the category factor mentioned against that description in the second column of the table. In case more than one of the descriptions below applies, the effective factor will typically be the product of the factors involved. These factors do not apply when fees are a lump sum or on a time basis.

Table 7A: Mechanical engineering services pertaining to building projects

Description of the Works	Typical factor by which basic fee is multiplied
Multi-tenant installations	1.25
Alterations to existing works. (Only applicable to the fees on the portion or section of works affected.)	1.25
Water supply and drainage systems and fire water systems.	1.25
Duplication of works. (Only applicable to the design portion of the fees on duplicated works.)	0.25

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Description of the Works	Typical factor by which basic fee is multiplied
For projects where the cost of the works exceeds R300 000 and where bills of quantities are not required from the consulting engineer and all financial, tender and contractual matters are dealt with by the quantity surveyor or other parties.	0.75
As above, but bills of quantities are not required from the consulting engineer and all financial, tender and contractual matters are dealt with by the consulting engineer (e.g. lump sum, nominated or selected sub- contracts etc.)	0.90

4.2.7 Electrical engineering services pertaining to building projects

(a) The basic fee for normal services in the discipline of electrical engineering pertaining to building projects is determined from Table 8 below. The fee is the sum of the primary fee and the secondary fee applicable to the specific cost of the works in respect of which the services were rendered on the project excluding the report stage described in clause 3.2.1 which shall be reimbursed on a time basis in terms of clause 4.4.

Table	8:	Electrical	engineering	services	pertaining	to	building	pro	iects

Cost of the Works		Basis of Fee Calculation		
For projects up to R850 0	00	Lump Sum or Time Basis		
Where the cost of the wo	rks:			
Exceeds	But does not exceed	Primary Fee	Secondary Fee	
R850 000	R1 899 000	R127 500	18.0%	
R1 899 000	R9 347 000	R284 900	15.0%	
R9 347 000	R19 066 000	R1 224 500	12.5%	
R19 066 000	R47 372 000	R2 236 400	11.5%	
R47 372 000	R94 960 000	R4 926 700	11.0%	
R94 960 000	R572 000 000	R9 201 700	10.0%	
R572 000 000		R49 764 000	10.0%	

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(b) For normal services relating to a description of the works mentioned in the first column of Table 8A, the proportion of the basic fee relating to the specific item calculated in terms of clause 4.2.7(a) is normally multiplied by the category factor mentioned against that description in the second column of the table. In case more than one of the descriptions below applies, the effective factor will typically be the product of the factors involved.

These factors do not apply when fees are a lump sum or on a time basis.

Description of the Works	Typical factor by which basic fee is multiplied
Multi-tenant installations	1.25
Alterations to existing works. (Only applicable to the fees on the portion or section of works affected.)	1.25
Duplication of works. (Only applicable to the design portion of the fees on duplicated works.)	0.25
For projects where the cost of the works exceeds R300 000 and where bills of quantities are not required from the consulting engineer and all financial, tender and contractual matters are dealt with by the quantity surveyor or other parties.	0.75
As above, but bills of quantities are not required from the consulting engineer and all financial, tender and contractual matters are dealt with by the consulting engineer (e.g. lump sum, nominated or selected sub-contracts, etc.)	0.90

4.2.8 Electronic engineering services

(a) The basic fee for normal services in the discipline of electronic engineering, including work pertaining to building projects, is determined from Table 9 below. The fee is the sum of the primary fee and the secondary fee applicable to the specific cost of the works in respect of which the services were rendered on the project, excluding the report stage described in clause 3.2.1 which shall be reimbursed on a time basis in terms of clause 4.4.

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Table 9: Electronic Engineering Services

Cost of the Works		Basis of Fee Calculation	
For projects up to R850	000	Lump Sum or Time Basis	
Where the cost of the works:			
Exceeds	But does not exceed	Primary Fee	Secondary Fee
R850 000	R1 899 000	R144 500	20.5%
R1 899 000	R9 347 000	R322 800	16.0%
R9 347 000	R19 066 000	R1 328 200	14.0%
R19 066 000	R47 372 000	R2 446 200	12.0%
R47 372 000	R94 960 000	R5 277 200	11.5%
R94 960 000	R572 000 000	R9 790 400	10.0%
R572 000 000		R50 336 000	10.0%

(b) For normal services relating to a description of the works mentioned in the first column of Table 9A the proportion of the basic fee relating to the specific item calculated in terms of clause 4.2.8(a) is normally multiplied by the category factor mentioned against that description in the second column of the table. In case more than one of the descriptions below applies, the effective factor will typically be the product of the factors involved.

These factors do not apply when fees are a lump sum or on a time basis

Description of the Works	Typical factor by which basic fee is multiplied
Alterations to existing works. (Only applicable to the fees on the portion or section of works affected.)	1.25
Where equipment or systems are wholly of proprietary design or approved by a State authority. (Only applicable to the design portion of the fees.)	0.67
Duplication of works. (Only applicable to the design portion of the fees on	0.25

Table 9A: Typical factor by which basic fee is multiplied

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Description of the Works	Typical factor by which basic fee is multiplied
duplicated works.)	
For projects where the cost of the works exceeds R440 000 and where bills of quantities are not required from the consulting engineer and all financial, tender and contractual matters are dealt with by the quantity surveyor or other parties.	0.75
As above, but bills of quantities for electronic works are not required from the consulting engineer and a financial, tender and contractual matters are dealt with by the consulting engineer (e.g. lump sum, nominated or selected sub-contract, etc.)	0.90

4.2.9 Services provided partially or in stages

(a) Table 10 shows typical percentages that are typically used for proportioning the basic fee for normal services over the various stages of the services. The actual percentage used should be adjusted for individual projects through negotiation and depending on the work involved in each stage, the value that can be added in each stage and any commercial considerations that may be applicable:

Table 10: Typical percentage points for each stage

Stage of Services	Typical percentage points for each stage
Civil: Engineering Projects:	
Inception	5
Concept and Viability	25
Design Development	25
Documentation and Procurement	25
Contract Administration and Inspection	15
Close-Out	5
Structural: Engineering Projects:	
Inception	5

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Stage of Services	Typical percentage points for each stage
Concept and Viability	25
Design Development	30
Documentation and Procurement	10
Contract Administration and Inspection	25
Close-Out	5
Civil: Building Projects:	
Inception	5
Concept and Viability	25
Design Development	25
Documentation and Procurement	15
Contract Administration and Inspection	25
Close-Out	5
Structural: Building Projects:	
Inception	5
Concept and Viability	20
Design Development	30
Documentation and Procurement	15
Contract Administration and Inspection	25
Close-Out	5
Mechanical, electrical and electronic projects:	
Inception	5
Concept and Viability	15
Design Development	20
Document and Procurement	20
Contract Administration and Inspection	35
Close-Out	5

(b) Where not all the stages of the normal services are provided by the consulting engineer,

the fee is, subject to clause 4.2 calculated as a percentage of the total fee calculated in CONTROLLED DISCLOSURE

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terms of this clause, which percentage is the sum of the percentage points appropriate to each stage as set out in the above table against those stages of the services provided by the consulting engineer, typically plus 10 percentage points to allow the engineer to become familiar with the project.

4.2.10 Cancellation or abandonment

Should instructions have been given by the client to the consulting engineer to proceed with any of the stages of services set out in clause 3 and the whole or part of the works is cancelled or abandoned or postponed for a period of more than six months, the consulting engineer must be remunerated for services performed, plus a surcharge of one tenth of the full fee which would have been payable to the consulting engineer had his or her services been completed in terms of the engagement.

4.3 Fees for additional services

- 1. The fees for additional services, contemplated in clause 3.3, are agreed to between the client and the consulting engineer as described in clause 4.1 and as set out hereunder.
- Unless otherwise agreed in writing, the fees for additional services contemplated in 3.3.1 and 3.3.7 are calculated on the basis of time as set out in 4.4 and actual costs as set out in 4.5.
- 3. For the provision of a construction monitoring service, as contemplated in clause 3.3.2, the consulting engineer is typically entitled to recover from the client:
- (a) for monthly monitoring staff costs, the total annual cost of employment of such staff (as defined in clause 4.4(4)), divided by 12 and multiplied by one of the following:
 - (i) **Case 1**: Where payment is only made for actual time on site and site allowances are not paid separately: 2.1 times total cost of employment.
 - (ii) Case 2: Where payment is only made for actual time on site and site allowances are paid separately: 2.0 times total cost of employment.
 - (iii) **Case 3:** Where payment is made for leave and non-working days and site allowances are paid separately: 1.8 times total cost of employment.

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- (b) for part time monitoring staff costs, the amount payable to such staff at the hourly rates contemplated in clause 4.4.
- 4. For all other costs, as set out in clause 4.5 the actual expenses incurred, multiplied by 1.10.
- 5. For duties under the Occupational Health and Safety Act, 85 of 1993, as contemplated in clause 3.3.3, the consulting engineer shall, if so appointed by the client, be remunerated on a time and cost basis as agreed with the client.
- For services as lead consulting engineer, as contemplated in clause 3.3.5, the lead consulting engineer is typically entitled to an additional fee of 10 percent (10%) of the total fees payable for the services.
- 7. For engineering management services or services as the principal consultant, as contemplated in clause 3.3.6, the consulting engineer will typically be remunerated as follows:
- (a) The basic fee for services in the discipline of engineering management services, including work pertaining to Building Projects, is determined from the table below. The fee is the sum of the primary fee and the secondary fee applicable to the specific cost of the works in respect of which the services were rendered on the project.

Table 11: Engineering Management Services (Principal Consultant)

Cost of the Works	Basis of Fee Calculation
For projects up to R850 000	Lump Sum or Time Basis

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Where the cost of the works:			
Exceeds	But does not exceed	Primary Fee	Secondary Fee
R850 000	R1 899 000	R38 300	4.5%
R1 899 000	R9 347 000	R85 500	3.5%
R9 347 000	R19 066 000	R345 800	3.0%
R19 066 000	R47 372 000	R636 800	2.5%
R47 372 000	R94 960 000	R1 345 400	1.5%
R94 960 000	R572 000 000	R2 060 600	1.5%
R572 000 000		R9 209 200	1.5%

(b) For normal services relating to a description of the works mentioned in the first column of Table 11A, the proportion of the basic fee relating to the specific calculated in terms of clause (a) is normally multiplied by the category factor mentioned against that description in the second column of the table. In case more than one of the descriptions below applies, the effective factor will typically be the product of the factors involved.

These factors do not apply when fees are a lump sum or on a time basis.

Table 11A: Typical factor by which basic fee is multiplied

Description of the Works	Typical factor by which basic fee is multiplied
Multi-tenant installations.	1.25
Alterations to existing works. (Only applicable to the fees on the portion	
or section of works affected.)	1.25

(c) Table 12 is typically used to proportion the basic fee over the various stages of the services:

Table 12: Typical percentage points for each stage	
Stage of Services	points for each
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	stage
Inception	5
Preliminary Design: Concept and Viability	20
Design Development	30
Documentation and Procurement	15
Contract Administration and Inspection	25
Close-out	5

8. For services as principal agent of the client, as contemplated in clause 3.3.8, the consulting engineer is typically entitled to an additional fee calculated at one percentage point (1%) of the total cost of the works comprising the project. The consulting engineer is not entitled to any fees for principal agent if he or she is not explicitly appointed as such.

4.4 Time-based fees

- Time-based fees are all-inclusive fees, including allowances for overhead charges incurred by the consulting engineer as part of normal business operations, including the cost of management, as well as payments to administrative, clerical and secretarial staff used to support professional and technical staff in general and not on a specific project only.
- (a) Time-based fees are calculated by multiplying the hourly rate contemplated in clause 4.4, which is applicable to the consulting engineer or any other technical staff employed by the consulting engineer, with the actual time spent by such technical staff in rendering the services required by the client.
- (b) Technical staff include all staff performing work directly related to the execution of the services the consulting engineer is engaged for by the client and excludes all administrative, clerical and secretarial staff used to support professional and technical staff in general and not on a specific project only, but includes the typing of letters, minutes,

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- 2. To determine the time-based fee rates, the persons concerned are divided into:
- (a) <u>Category A</u>, in respect of a private consulting practice in engineering, means a top practitioner whose expertise and relevant experience is nationally or internationally recognised and who provides advice at a level of specialisation where such advice is recognised as that of an expert.
- (b) <u>Category B</u>, in respect of a private consulting practice in engineering, means a partner, a sole proprietor, a director, or a member who, jointly or severally with other partners, co-directors or co-members, bears the risks of the business, or takes responsibility for the projects and related liabilities of such practice and where his/her level of expertise and relevant experience is commensurate with the position, performs work of a conceptual nature in engineering design and development, provides strategic guidance in planning and executing a project and/or carries responsibility for quality management pertaining to a project.
- (c) <u>Category C</u>, in respect of a private consulting practice in engineering, means all salaried professional staff with adequate expertise and relevant experience performing work of an engineering nature and who carry the direct technical responsibility for one or more specific activities related to a project. A person referred to in Category B may also fall in this category if such person performs work of an engineering nature at this level.
- (d) <u>Category D</u>, in respect of a private consulting practice in engineering, means all other salaried technical staff with adequate expertise and relevant experience performing work of an engineering nature with direction and control provided by any person contemplated in categories A, B or C.
- 3. The time-based fee rates are:
- (a) Calculated for a person in category -
 - (i) A and B at 22.00 cents per hour
 - (ii) C at 17.5 cents per hour; and

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- (iii) D at 16.5 cents per hour for each R100 or part thereof of the total annual cost of employment of the person concerned, as contemplated in sub-clause (4); or
- (b) based on such indicative time-based fee rates as are determined from time-to-time by the Engineering Council of South Africa after consultation with service providers and service users: provided that in all cases the client and consulting engineer may agree on a more appropriate fee to take account of the specific services to be rendered or expertise to be applied.
- 4. For the purposes of clause 4.4, the total annual cost of employment of a person means the total amount borne by an employer in respect of the employment of such a person per year, calculated at the amounts applicable to such a person at the time when the services are rendered, including:
- (a) Basic salary or a nominal market-related salary, excluding profit share and asset growth.
- (b) Fringe benefits not reflected in the basic salary, including:
 - (i) Normal annual bonus
 - (ii) Employer's contribution to medical aid
 - (iii) Group life insurance premiums borne by the employer
 - (iv) Employer's contribution to a pension or provident fund
 - (v) All other benefits or allowances payable in terms of a letter of appointment, including any transportation allowance or company vehicle benefit, telephone and/or computer allowances, etc; and
- (c) Amounts payable in terms of an Act, including:
 - (i) Contributions to the Compensation Fund in terms of the Compensation for Occupational Injuries and Diseases Act, 130 of 1993
 - (ii) Contributions to unemployment insurance in terms of the Unemployment Insurance Fund Act, 63 of 2001
 - (iii) Levies in terms of the Skills Development Levy Act 9 of 1999
 - (iv) Recoverable levies to all spheres of government.

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4.5 Expenses and costs

- 1. Subject to clause 4.3(3) a consulting engineer may recover from the client:
- (a) All expenses actually incurred by the consulting engineer and members of the consulting engineer's staff in rendering their services.
- (b) All other costs incurred on behalf of and with approval of the client, plus a mark-up of 10 per cent.
- 2. Recoverable expenses include:
- (a) Travelling expenses for the conveyance of the consulting engineer or a member of the consulting engineer's staff by means of:
 - (i) private motor transport, including any parking charges, toll fees and related expenses
 - (ii) a scheduled airline or a train, bus, taxi or hired car; or
 - (iii) non-scheduled or privately owned air transport.
- (b) Travelling time on the basis of the rate set out in clause 4.4, for all time spent in travelling by the consulting engineer or members of his or her staff is as follows:
 - (i) When fees are paid on a time basis, all hours spent on travelling are reimbursable.
 - (ii) When fees are paid on a percentage basis, reimbursement for travelling time is for all time spent in travelling minus the first hour per return journey.
- (c) Accommodation and subsistence expenses incurred by the consulting engineer or a member of his staff.
- (d) Agreed costs of typing, production, copying and binding of contract documents, prequalification documents, feasibility reports, preliminary design reports, final reports and manuals, excluding general correspondence, minor reports, contractual reports, progress reports, etc.

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- (e) Expenses on special reproductions, copying, printing, artwork, binding and photography, etc. requested by the client.
- (f) Alternatively, a lump sum or percentage of the cost of the works may be determined and agreed between the consulting engineer and the client to cater for all or any of the above.
- 3. Costs that shall be recovered under clause (1)(b) above include, but are not limited to:
- (a) Site traffic surveys
- (b) Geotechnical investigations
- (c) Sampling and Laboratory testing
- (d) Topographical and land surveys
- (e) Supply of specific equipment
- (f) Specialist sub-consultants
- (g) Environmental investigations and studies, and management plans
- (h) Institutional service delivery and social consultants
- (i) Land acquisitions, expropriation, way leaves and servitudes.

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