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27 JANUARY

[No. 1642.]

GOEWERMENSKENNISGEWINGS

GOVERNMENT NOTICES.

DEPARTEMENT VAN FINANSIES.

DEPARTMENT OF FINANCE.

No. R. 99.]

[27 Januarie 1967.]

**DIE NATALSE GENOOTSAP VAN REKEN-
MEESTERS.**

[GEÏNKORPOREER KRAFTENS WET No. 35 VAN
1909 (REKENMEESTERSWET, 1909) (NATAL),
SOOS GEWYSIG.]

Kragtens die bepalings van artikel *een-en-twintig* van genoemde Wet word die volgende wysiging van die Verordeninge van die Natalse Genootskap van Rekenmeesters, soos afgekondig by Goewermenskennisgewing No. R. 652 van 1 Mei 1964, hierby afgekondig.

No. R. 99.]

[27 January 1967.]

THE NATAL SOCIETY OF ACCOUNTANTS.

[INCORPORATED UNDER ACT No. 35 OF 1909
(ACCOUNTANTS ACT, 1909) (NATAL), AS
AMENDED.]

In terms of the provisions of section *twenty-one* of the above-mentioned Act, the following amendment to the By-laws of the Natal Society of Accountants, as promulgated under Government Notice No. R. 652 of the 1st May, 1964, are hereby promulgated.

A. Die vervanging van die bestaande verordening 38 (b) deur die volgende:—

A. The substitution of the following for existing By-law 38 (b):—

„Tensy en tot tyd en wyl daar anders besluit word, is die jaarlikse ledegeld verskuldig op die eerste dag van Januarie in elke jaar en moet gedurende genoemde maand betaal word en bedra die som van—

“Unless and until otherwise so determined the annual subscription shall be due on the first day of January in each year and payable during that month and shall be the sum of—

- (i) vyf rand in die geval van lede wie se name in die Lys van Elderswonende Lede verskyn en wat nie volle lede van een van die ander Suid-Afrikaanse Genootskappe is nie;
- (ii) drie rand in die geval van lede wie se name in die Lys van Elderswonende Lede verskyn en wat volle lede van een van die ander Suid-Afrikaanse Genootskappe is;
- (iii) twintig rand vir alle lede: Met dien verstande dat vir die eerste vyf jaar nadat vir lidmaatskap kragtens verordening 35 (a) gekwalifiseer is, die ledegeld tot tien rand verminder word.”

- (i) five rand for those members on the Absentee List who are not full members of one of the other South African Societies;

- (ii) three rand for those members on the Absentee List who are full members of one of the other South African Societies;

- (iii) twenty rand for all other members: Provided that for the first five years after becoming eligible for membership in terms of By-law 35 (a) the subscription shall be reduced to ten rand.”

B. Die vervanging van die bestaande voorbehoudsbepaling in verordening 52 deur die volgende:—

B. The substitution of the following for the existing proviso in By-law 52:—

„Met dien verstande dat, ten opsigte van klerke wat as ongeskrewe klerke wil dien by lede van die Genootskap, wat 'n openbare praktyk beoefen in gebiede buite die Republiek en Suidwes-Afrika, die Raad geheel en al volgens sy eie goedgeundkeuring aan sodanige leerkontrakte kan heg.”

“Provide that in respect of clerks wishing to serve articles with members of the Society in public practice in territories outside the Republic and South West Africa, the Council may in its absolute discretion authorise such articles.”

DEPARTEMENT VAN DOEANE EN AKSYNS.

No. R. 101.]

[27 Januarie 1967.

DOEANE- EN AKSYNSWET, 1964.—WYSIGING
VAN BYLAE No. 1 (No. 1/86).

Ek, THEOPHILUS EBENHAEZER DÖNGES, Minister van Finansies, handelende kragtens die bevoegdheid my verleen by artikel 48 van die Doeane- en Aksynswet, 1964, wysig hierby Bylae No. 1 van genoemde Wet in die mate in die Bylae hiervan aangetoon.

T. E. DÖNGES,
Minister van Finansies.

DEPARTMENT OF CUSTOMS AND EXCISE.

No. R. 101.]

[27 January 1967.

CUSTOMS AND EXCISE ACT, 1964.—AMEND-
MENT OF SCHEDULE No. 1 (No. 1/86).

I, THEOPHILUS EBENHAEZER DÖNGES, Minister of Finance, acting in terms of the powers vested in me by section 48 of the Customs and Excise Act, 1964, hereby amend Schedule No. 1 to the said Act to the extent set out in the Schedule hereto.

T. E. DÖNGES,
Minister of Finance.

BYLAE.

I Tariefpos	II Statistiese Eenheid	III IV V Skaal va Reg		
		Algemeen	M.B.N.	Voorkeur
83.06 Deur na subpos No. 83.06.10 die volgende in te voeg: „ 83.06.20 Ornamente van plaat- of fyn- plaatkoper, nie met edelmetaal geplateer nie	getal	20% ”		

OPMERKING.—Spesifieke voorsiening, teen 'n skaal van reg van 20%, word gemaak vir ornamente van plaat- of fynplaatkoper, nie met edelmetaal geplateer nie.

SCHEDULE.

I Tariff Heading	II Statistical Unit	III IV V Rate of Duty		
		General	M.F.N.	Pre-ferential
83.06 By the insertion after subheading No. 83.06.10 of the following: “ 83.06.20 Ornaments of plate or sheet copper, not plated with precious metal	no.	20% ”		

NOTE.—Specific provision, at a rate of duty of 20%, is made for ornaments of plate or sheet copper, not plated with precious metal.

No. R. 113.]

[27 Januarie 1967.

DOEANE- EN AKSYNSWET, 1964.—WYSIGING
VAN BYLAE No. 6 (No. 6/12).

Ek, THEOPHILUS EBENHAEZER DÖNGES, Minister van Finansies, handelende kragtens die bevoegdheid my verleen by artikel 75 van die Doeane- en Aksynswet, 1964, wysig hierby Bylae No. 6 van genoemde Wet in die mate in die Bylae hiervan aangetoon.

T. E. DÖNGES,
Minister van Finansies.

No. R. 113.]

[27 January 1967.

CUSTOMS AND EXCISE ACT, 1964.—AMEND-
MENT OF SCHEDULE No. 6 (No. 6/12).

I, THEOPHILUS EBENHAEZER DÖNGES, Minister of Finance, acting in terms of the powers vested in me by section 75 of the Customs and Excise Act, 1964, hereby amend Schedule No. 6 to the said Act to the extent set out in the Schedule hereto.

T. E. DÖNGES,
Minister of Finance.

BYLAE.

I Item	II Tatiefitem en Beskrywing	III Mate van Korting	IV Mate van Terug- betaling
609.17.20	Deur paragraaf (a) van tariefitem 117.05 deur die volgende te vervang: „ (a) Geen paragraaf ”		

OPMERKING.—Die voorsiening vir 'n korting op reg op motorkarre in die Republiek vervaardig en met 'n inhoud, volgens gewig, van onderdele submontasies en materiale goedgekeur as in die Republiek vervaardig, van meer as 25% maar hoogstens 30%, word ingetrek.

SCHEDULE.

I Item	II Tariff Item and Description	III Extent of Rebate	IV Extent of Refund
609.17.20	By the substitution for paragraph (a) of tariff item 117.05 of the following: " (a) No paragraph "		

NOTE.—The provision for a rebate of duty on motor cars manufactured in the Republic and having a content of parts, sub-assemblies and materials approved as being manufactured in the Republic, by weight, of more than 25% but not more than 30%, is withdrawn.

DEPARTEMENT VAN POS-EN-TELEGRAAFWESE.

No. R. 102.] [27 Januarie 1967.
WYSIGING VAN TELEFOONREGULASIES.

Dit het die Staatspresident behaag om, kragtens die bepalings van artikel 2 (4) en van artikel 3 van Wet No. 44 van 1958, sy goedkeuring te heg aan onderstaande wysiging van die Telefoonregulasies:—

Regulasie 18 (ii).

Vervang die bestaande regulasie deur die volgende nuwe regulasie:—

„18. (ii) Die Posmeester-generaal kan na goedvinde 'n sentralelyn na 'n kantoor van 'n nie-telefoonhuurder binne dieselfde gebou as dié waarin die hoofdiens bestaan, asook na 'n nie-telefoonhuurder wat 'n filiaal is van die huurder van die hooftelefoondiens en kantore in 'n ander gebou as die telefoonhuurder okkupeer, laat verleng teen die voorgeskrewe tariewe vir bylyne, mits die persele waar sodanige verlenging verlang word binne dieselfde sentralegebied as die hooftelefoondiens is en mits daar voldoen word aan die voorwaardes vir gesamentlike gebruik, soos voorgeskryf by Telefoonregulasie 22.

Vir die toepassing van hierdie regulasie berus die besluit of 'n onderneming 'n filiaal van die telefoonhuurder is uitsluitlik by die Posmeester-generaal.”

Regulasie 22.

Vervang die bestaande regulasie deur die volgende nuwe regulasie:—

„22. *Gesamentlike gebruik van telefoondienste.*—Na goedvinde van die Posmeester-generaal kan enige nie-telefoonhuurder wat in dieselfde gebou as 'n telefoonhuurder kantore okkupeer, asook 'n nie-telefoonhuurder wat 'n filiaal is van 'n telefoonhuurder en wat kantore in 'n ander gebou as die telefoonhuurder okkupeer, met die toestemming van die telefoonhuurder van sy telefoondiens gebruik maak. Die telefoonhuurder is vir alle telefoongelde en -koste op rekening van die gesamentlike gebruiker aanspreeklik en moet aan die Posmeester-generaal 'n medegebruiksgeld van R2 per jaar by gesprektariefsentrales en R4 per jaar by vastetariefsentrales betaal. By gesprektariefsentrales betaal die telefoonhuurder aan die Posmeester-generaal, bo en behalwe die medegebruiksgeld van R2 per jaar en die voorgeskrewe bylynhuur, 'n bedrag van R0.50 per jaar ten opsigte van elke bylyn met interkommunikasiefasiliteite wat by 'n sentralelyn aangesluit is en ten opsigte van elke bylyn wat by 'n private taksentrale of private outomatiese taksentrale aangesluit is.

Vir die toepassing van hierdie regulasie berus die besluit of 'n onderneming 'n filiaal van die telefoonhuurder is uitsluitlik by die Posmeester-generaal.”

No. R. 108.] [27 Januarie 1967.

Dit het die Staatspresident behaag om, kragtens artikel 3 van Wet No. 44 van 1958, sy goedkeuring daaraan te heg dat die Tarieffys vir die Internasionale Teleksdiens

DEPARTMENT OF POSTS AND TELEGRAPHS.

No. R. 102.] [27 January 1967.
AMENDMENT OF TELEPHONE REGULATIONS.

The State President has been pleased, under the provisions of section 2 (4) and of section 3 of Act No. 44 of 1958, to approve of the following amendments to the Telephone Regulations:—

Regulation 18 (ii):—

Replace the existing regulation by the following new regulation:—

“18. (ii) At the discretion of the Postmaster General, an exchange line may be extended, at the prescribed tariff for extensions, to offices of a non-telephone subscriber within the same building as that in which the main service exists as well as to an affiliated body of the renter of the main telephone service which is not a telephone subscriber and which occupies offices in a different building as the telephone subscriber, provided the premises where such extension is required are within the same exchange area as the main telephone service and provided the conditions for joint use are complied with as prescribed by Telephone Regulation 22.

For the purpose of this regulation the decision as to whether an undertaking is an affiliated body of the telephone subscriber, rests exclusively with the Postmaster General.”

Regulation 22.

Replace the existing regulation by the following new regulation:—

“22. *Joint Use of Telephone Services.*—At the discretion of the Postmaster General any non-telephone subscriber occupying offices in the same building as a telephone subscriber as well as a non-telephone subscriber who is an affiliated body of a telephone renter and who occupies offices in a different building as the telephone subscriber may with the permission of the telephone subscriber, be allowed to use his telephone service. The telephone subscriber shall be responsible for all telephone fees and charges incurred by the joint user, and shall pay to the Postmaster General a joint-use fee of R2 per annum at message-rate exchanges and R4 per annum at flatrate exchanges. At message-rate exchanges, the telephone subscriber shall pay to the Postmaster General, in addition to the joint-use fee of R2 per annum and the prescribed extension rental, a fee of R0.50 per annum in respect of each extension with intercommunication facilities connected to an exchange line and in respect of each extension connected to a private branch exchange or private automatic branch exchange.

For the purpose of this regulation the decision as to whether an undertaking is an affiliated body of the telephone subscriber, rests exclusively with the Postmaster General.”

No. R. 108.] [27 January 1967.

The State President has been pleased in terms of Section 3 of Act No. 44 of 1958 to approve that the Tariff List for the International Telex Service published under

afgekondig by Goewermentskennisgewing No. R. 1790 van 11 November 1960, soos gewysig, verder gewysig word deur die invoeging van die volgende besonderhede in alfabetiese volgorde:—

Land van bestemming.	Minimum koste vir drie minute.	Elke bykomende minuut.	Verslag-koste.
Bolivia.....	R 8.55	R 2.85	R 0.50

DEPARTEMENT VAN GESONDHEID.

No. R. 107.] [27 Januarie 1967.
REÛLS BETREFFENDE DIE WERKWYSE VAN DIE SUID-AFRIKAANSE APTEKERSKOMMISSIE EN ANDER SAKE.

Die Minister van Gesondheid het in die uitoefening van die bevoegdheid hom verleen by artikel 94 (4) van die Wet op Geneeshere, Tandartse en Aptekers, 1928 (Wet No. 13 van 1928), sy goedkeuring geheg aan die wysiging van die reëls betreffende die werkwyse van die Suid-Afrikaanse Aptekerskommissie en ander sake, wat deur die Suid-Afrikaanse Aptekerskommissie kragtens artikel 94 (2) van genoemde Wet opgestel is en by Goewermentskennisgewing No. R. 673 van 10 Mei 1963, soos gewysig by Goewermentskennisgewing No. R. 812 van 27 Mei 1966, afgekondig is, soos volg:—

Deur die vervanging van „R8.40” in subreël (2) van reël 22 deur „R10”.

DEPARTEMENT VAN ARBEID.

No. R. 91.] [20 Januarie 1967.
WET OP VAKLEERLINGE, 1944, SOOS GEWYSIG.

STAATSVAKLEERLINGSKAPKOMITEE.

VOORGENOME INTREKKING EN VOORSKRYWING VAN LEERVOORWAARDES.

Ek, MARAIS VILJOEN, Minister van Arbeid, handelende kragtens artikel *sestien* van die Wet op Vakleerlinge, 1944, soos gewysig, is voornemens om—

- (i) Goewermentskennisgewing No. R. 1812 van 19 November 1965, soos toegepas by Goewermentskennisgewing No. R. 32 van 7 Januarie 1966, in te trek;
- (ii) ondergenoemde ambagte as ambagte waarop die bepalinge van die Wet van toepassing is, aan te wys vir Staatsondernemings in die Republiek van Suid-Afrika ten opsigte waarvan die Staatsvakleerlingskapkomitee by Goewermentskennisgewing No. 1738 van 19 Oktober 1923 ingestel is:—

1. Bankwerker en Draaier.....	(14)
2. Dieselmotortuigkundige.....	(9)
3. Elektriese.....	(11)
4. Elektro-meganikus.....	(12)
5. Elektrotegniese passer.....	(10)
6. Gereedskapvervaardiging.....	(32)
7. Gieter.....	(18)
8. Industriële Elektronika-werktuigkundige.....	(15)
9. Ingenieursgrofsmid.....	(13)
10. Ketelmaker.....	(4)
11. Kopersmid.....	(7)
12. Letterskilder.....	(31)
13. Loodgieterswerk.....	(23)
14. Maker en Herstel van Wetenskaplike Instrumente.....	(29)
15. Messelwerk.....	(5)
16. Modelvervaardiger.....	(20)
17. Motorelektriese.....	(2)
18. Motormasjien- en paswerk.....	(3)

Government Notice No. R. 1790 of the 11th November, 1960, as amended, be further amended by the insertion of the following particulars in alphabetical order:—

Country of Destination.	Minimum Charge for Three Minutes.	Each Additional Minute.	Report Charge.
Bolivia.....	R 8.55	R 2.85	R 0.50

DEPARTMENT OF HEALTH.

No. R. 107.] [27 January 1967.
RULES RELATING TO THE CONDUCT OF BUSINESS OF THE SOUTH AFRICAN PHARMACY BOARD AND OTHER MATTERS.

The Minister of Health, in the exercise of the powers conferred on him by section 94 (4) of the Medical, Dental and Pharmacy Act, 1928 (Act No. 13 of 1928), has approved the amendment of the rules relating to the conduct of business of the South African Pharmacy Board and other matters, made by the South African Pharmacy Board under section 94 (2) of the said Act and published under Government Notice No. R. 673, dated 10th May, 1963, as amended by Government Notice No. R. 812, dated 27th May, 1966, as follows:—

By the substitution for “R8.40” in sub-rule (2) of rule 22 of “R10”.

DEPARTMENT OF LABOUR.

No. 91.] [27 January 1967.
APPRENTICESHIP ACT, 1944, AS AMENDED.

GOVERNMENT APPRENTICESHIP COMMITTEE.

PROPOSED WITHDRAWAL AND PRESCRIPTION OF CONDITIONS OF APPRENTICESHIP.

I, MARAIS VILJOEN, Minister of Labour, acting in pursuance of section 16 of the Apprenticeship Act, 1944, as amended, propose to—

- (i) withdraw Government Notice No. R. 1812 of the 19th November, 1965, as applied by Government Notice No. R. 32 of the 7th January, 1966;
- (ii) designate for Government Undertakings in the Republic of South Africa for which undertakings and area the Government Apprenticeship Committee was established by Government Notice No. 1738 of 19th October, 1923, the undermentioned trades as trades to which the provisions of the Act shall apply:—

1. Armament Fitter.....	(32)
2. Automobile Electrician.....	(17)
3. Automotive Machining and Fitting.....	(18)
4. Boilermaker.....	(10)
5. Bricklaying.....	(15)
6. Carpentry and Joinery.....	(30)
7. Coppersmith.....	(11)
8. Construction Plant Mechanic.....	(33)
9. Diesel Mechanic.....	(2)
10. Electrical Fitter.....	(5)
11. Electrician.....	(3)
12. Electromechanic.....	(4)
13. Engineering Blacksmith.....	(9)
14. Fitting and Turning.....	(1)
15. Industrial Electronics Mechanician.....	(8)
16. Marine Fitter.....	(25)
17. Motor Mechanic.....	(19)
18. Moulder.....	(7)

19. Motorwerktuigkundige.....	(17)
20. Pleisterwerk.....	(22)
21. Pyppasser.....	(21)
22. Radiotrisien.....	(25)
23. Radiowerktuigkundige (Kommunikasie).....	(24)
24. Seilmaker.....	(28)
25. Skeepsasser.....	(16)
26. Skeepstimmerman.....	(30)
27. Skilder.....	(19)
28. Sweiswerk.....	(33)
29. Takelwerk.....	(27)
30. Timmerwerk en Skrynwerk.....	(6)
31. Verkoelingswerktuigkundige.....	(26)
32. Wapenmonteur.....	(1)
33. Werktuigkundige (aanlegmasjinerie).....	(8)

(iii) die voorwaardes hieronder gemeld, as leervoorwaardes ten opsigte van die ambagte aangedui in paragraaf (ii) hiervan, voor te skryf ten opsigte van Staatsondernemings en die gebied waarvoor die Staatsvakleerlingskapkomitee ingestel is; en

(iv) te bepaal dat die bepalinge van klousules 3, 4, 5, 6 en 7 van die leervoorwaardes hieronder gemeld, vanaf die datum van voorskrywing daarvan van toepassing is ook op vakleerlinge wat in diens is in 'n ambag wat 'n aangewese ambag is of was in Staatsondernemings en die gebied ten opsigte waarvan genoemde Komitee ingestel is.

VOORWAARDES.

1. *Kwalifikasies vir begin van vakleerlingskap.*—Die minimum leeftyd en opvoedkundige kwalifikasies vir die begin van vakleerlingskap is 16 jaar en Standaard VII of 'n verklaring van prestasie uitgereik deur of namens die skool wat deur die voornemende vakleerling besoek is, waarin gemeld word dat hy op die Standaard VII-peil geslaag het in die vakke Afrikaans, Engels, Rekenkunde of Algemene Wiskunde en minstens een ander vak.

2. *Leertyd.*—Die leertyd is vyf jaar vir alle aangewese ambagte.

3. *Besoldiging.*—(a) 'n Werkgewer moet 'n vakleerling maandeliks 'n besoldiging betaal teen minstens die skaal hieronder gespesifiseer:—

	Per jaar R
Eerste jaar.....	840
Tweede jaar.....	930
Derde jaar.....	1,020
Vierde jaar.....	1,110
Vyfde jaar.....	1,200

(b) (i) 'n Werkgewer met die besoldiging voorgeskryf in subklousule (a) ten opsigte van elke vakleerling wat in besit is van of wat enigeen van die opvoedkundige kwalifikasies in die lys onder subklousule (b) van klousule 6 gemeld, verwerf, of wat die Nasionale Diploma besit of verwerf, aanvul met minstens die bedrag hieronder genoem:—

	Per maand. R
Groep I.....	3.00
Groep II.....	4.00
Groep III.....	6.50
Groep IV.....	8.50
Groep V.....	10.50
Na verwerfing van die tweede jaar van die Nasionale Diploma.....	13.50
Na verwerfing van die derde jaar van die Nasionale Diploma.....	15.00
Nasionale Diploma.....	17.50

(ii) Enige bedrag waarop 'n vakleerling ingevolge paragraaf (i) hiervan geregtig is, moet, waar die betrokke sertifikaat gedurende sy leertyd verwerf is, betaal word vanaf die datum van uitreiking daarvan.

(c) Indien 'n werkgewer en 'n voornoemde meerderjarige vakleerling, voordat hulle 'n vakleerlingkontrak aangaan, ooreenkom dat 'n hoër besoldiging betaal moet word as die wat in subklousule (a) voorgeskryf word, moet sodanige hoër besoldiging in die kontrak gemeld en aan die vakleerling betaal word.

4. *Tegniese studies.*—(a) 'n Vakleerling wat nie alreeds ten opsigte van vakke wat betrekking het op die ambag waarvoor hy ingeskryf is, in besit van die sertifikaat of die alternatiewe kwalifikasie wat in subklousule (b) van hierdie klousule voorgeskryf word, is nie, moet tegniese klasse bywoon wat met sodanige ambag in

19. Painting.....	(27)
20. Patternmaking.....	(16)
21. Pipe Fitter.....	(21)
22. Plastering.....	(20)
23. Plumbing.....	(13)
24. Radiomechanic (Communication).....	(23)
25. Radiotrician.....	(22)
26. Refrigeration Mechanic.....	(31)
27. Rigging.....	(29)
28. Sailmaker.....	(24)
29. Scientific Instrument Maker and Repairer.....	(14)
30. Shipwright.....	(26)
31. Signwriting.....	(12)
32. Toolmaking.....	(6)
33. Welding.....	(28)

(iii) prescribe the conditions set out hereunder as conditions of apprenticeship in respect of the trades specified in paragraph (ii) hereof in respect of Government Undertakings and the area for which the Government Apprenticeship Committee was established; and

(iv) determine that the provisions of clauses 3, 4, 5, 6 and 7 of the conditions set out hereunder shall from the date of prescription thereof also apply to apprentices who are employed in any trade which is or was a designated trade in Government Undertakings and the area in respect of which the said Committee was established.

CONDITIONS.

1. *Qualifications for Commencing Apprenticeship.*—The minimum age and educational qualifications for commencing apprenticeship shall be 16 years and Standard VII or a statement of attainment issued by or on behalf of the school attended by the prospective apprentice reflecting a pass at Standard VII level in the subjects Afrikaans, English, Arithmetic or General Mathematics and at least one other subject.

2. *Period of Apprenticeship.*—The period of apprenticeship shall be five years in all designated trades.

3. *Remuneration.*—(a) An employer shall remunerate an apprentice monthly at not less than the rates specified hereunder:—

	Per Annum. R
First year.....	840
Second year.....	930
Third year.....	1,020
Fourth year.....	1,110
Fifth year.....	1,200

(b) (i) An employer shall supplement the remuneration prescribed in sub-clause (a) by an amount of not less than that indicated hereunder in respect of every apprentice who is in possession of or attains any of the educational qualifications scheduled in sub-clause (b) of clause 6, or who possesses or attains the National Diploma:—

	Per Month. R
Group I.....	3.00
Group II.....	4.00
Group III.....	6.50
Group IV.....	8.50
Group V.....	10.50
After attainment of the second year of the National Diploma.....	13.50
After attainment of the third year of the National Diploma.....	15.00
National Diploma.....	17.50

(ii) Any amount to which an apprentice is entitled in terms of paragraph (i) hereof shall, where the relevant certificate is attained during apprenticeship be payable as from the date of issue thereof.

(c) If an employer and a prospective major apprentice agree, before entering into a contract of apprenticeship, that remuneration shall be paid at rates higher than those prescribed in this clause, such higher rates of remuneration shall be recorded in the contract and shall be paid to the apprentice.

4. *Technical Studies.*—(a) An apprentice who is not already in possession of the certificate or the alternative qualification prescribed in sub-clause (b) of this clause, in subjects related to the trade in which he is indentured, shall attend technical classes, relevant to such trade and in accordance with the syllabuses prescribed by the Depart-

verband staan, en sodanige klasse moet gegee word ooreenkomstig die leerplanne wat deur die Departement van Onderwys, Kuns en Wetenskap voorgeskryf word vir die Nasionale Tegnieese Sertifikaat, Deel I en II, en moet bygewoon word by die naaste tegnieese inrigting wat uitsluitlik of gedeeltelik uit openbare fondse in stand gehou word; met dien verstande dat waar daar geen fasiliteite vir die bywoning van klasse in enige kursus of 'n gedeelte daarvan binne 12 myl vanaf die vakleerling se woning of binne 12 myl vanaf sy werkplek beskikbaar is nie waar daar van hom vereis word om klasse gedurende die gewone werkure by te woon, hy in plaas van sodanige bywoning 'n korrespondensiekursus mag volg wat deur die Witwatersrandse Tegnieese Kollege vir genoemde kursus of 'n gedeelte daarvan gegee word.

(b) 'n Vakleerling moet tegnieese klasse bywoon of korrespondensiekursusse volg totdat hy in die eksamen vir die Nasionale Tegnieese Sertifikaat, Deel II, geslaag het; met dien verstande dat 'n vakleerling wat in die eksamen vir genoemde sertifikaat druip maar wat wel slaag in die ambagsteorie wat betrekking het op die ambag waarvoor hy ingeboek is, nie verdere klasse hoef by te woon of verdere korrespondensiekursusse hoef te volg nie, na gelang van die geval.

(c) Gedurende die eerste jaar van die gewone leertyd geskied die bywoning van tegnieese klasse gedurende die gewone werkure op vyf dae van die week vir die tydskuur van enige aaneenlopende studiekursus wat deur die betrokke tegnieese inrigting aangebied word of waar 'n aaneenlopende studiekursus nie beskikbaar is nie, so naby doenlik vir—

(i) of agt uur op een dag per week;

(ii) of vier uur op elkeen van twee dae per week,

maar in geen geval mag bywoning later as 7.15 nm. duur nie. Die verpligte bywoning van klasse gedurende die tweede en enige daaropvolgende jaar van die vakleerling-skap geskied buite die gewone werkure; met dien verstande dat, as 'n vakleerling 'n sertifikaat van die betrokke tegnieese inrigting toon waarin gemeld word dat hy bevredigend punte vir ywer en vordering behaal het, hy nog die klasse gedurende werkure moet bywoon op die grondslag soos vir die eerste jaar voorgeskryf.

(d) 'n Vakleerling wat 'n korrespondensiekursus ooreenkomstig die bepalings van subklousule (a) en (b) volg, moet, waar die Registrateur van Vakleerlinge 'n studieplek vir sodanige korrespondensiekursus bepaal het, by sodanige plek studeer, en die bepalings van subklousule (c) is *mutatis mutandis* op sodanige vakleerling van toepassing.

(e) Ondanks die bepalings van subklousule (b), word daar nie van 'n vakleerling wat, nadat hy twee jaar lank klasse bygewoon het of 'n korrespondensiekursus gevolg het, nie 'n Nasionale Tegnieese Sertifikaat, Deel I, met die teorie van die ambag waarvoor hy ingeboek is, as een van die vakke waarin daar geslaag is, behaal het nie, vereis om, na gelang van die geval, verdere klasse by te woon of verdere korrespondensiekursusse te volg nie.

(f) Van 'n vakleerling wat, as gevolg daarvan dat hy militêre opleiding ingevolge die Verdedigingswet (No. 44 van 1957), soos gewysig, moet ondergaan, nie in staat is om tegnieese klasse by te woon vir die tydskuur van enige aaneenlopende studiekursus, of om tegnieese klasse by te woon of 'n korrespondensiekursus te volg vir minstens die helfte van enige akademiese jaar nie, na gelang van die geval, word daar nie vereis om sy studies gedurende sodanige jaar voort te sit nie.

(g) Die bepalings van subklousule (c) en (d) is *mutatis mutandis* van toepassing op 'n vakleerling wat voldoen het aan die bepalings van subklousule (b) of wat reeds in besit is van 'n hoër tegnieese kwalifikasie en vrywilliglik sy studies in verband met die ambag waarvoor hy ingeboek is, voortsit.

5. *Betaling van klas- of kursus- en eksamengelde.*—'n Werkgewer moet die klas- of kursus- en eksamengelde voorskiet wat aan die tegnieese inrigting betaalbaar is deur 'n vakleerling van wie daar vereis word of wat kragtens subklousule (g) van klousule 4 verkies om klasse by te woon of korrespondensiekursusse te volg of vir 'n eksamen in te skryf, en die werkgewer moet sodanige gelde aan

ment of Education, Arts and Science for the National Technical Certificates, Parts I and II, and conducted by the nearest technical institution maintained wholly or partly from public funds; provided that where facilities for class attendance in any course or part thereof do not exist within 12 miles of the apprentice's residence or within 12 miles of his working place where attendance is required of him during ordinary working hours, he may in lieu of attendance take a correspondence course conducted by the Witwatersrand Technical College for the said course or part thereof.

(b) An apprentice shall attend technical classes or take correspondence course until he passes the examination for the National Technical Certificate, Part II; provided that an apprentice who fails in the examination for the said certificate but obtains a pass in the trade theory relevant to the trade in which he is indentured, shall not be required to attend further classes or take further correspondence courses, as the case may be.

(c) During the first year of the normal period of apprenticeship, attendance at technical classes shall take place during the ordinary working hours on five days per week for the duration of any continuous course of study conducted by the technical institution concerned, or where a continuous course of study is not available, as nearly as practicable either—

(i) for eight hours on one day per week; or

(ii) for four hours on each of two days per week;

but in neither case shall attendance extend beyond 7.15 p.m. Compulsory attendance of classes during the second or any subsequent year of apprenticeship shall be outside ordinary working hours; provided that if an apprentice produces a certificate from the technical institution concerned that he has obtained satisfactory marks for diligence and progress, he shall continue to attend classes during working hours on the basis prescribed for the first year.

(d) An apprentice taking a correspondence course in terms of sub-clauses (a) and (b) shall, where the Registrar of Apprenticeship has determined a place for the study of such a correspondence course, study at such place and the provisions of sub-clause (c) shall *mutatis mutandis* apply to such apprentice.

(e) Notwithstanding the provisions of sub-clause (b), an apprentice who after two years class attendance or after taking a correspondence course for two years, has not attained a National Technical Certificate, Part I, with one of the subjects passed being the theory of the trade in which he is indentured, shall not be required to attend any further classes or take any further correspondence courses, as the case may be.

(f) An apprentice who as a result of having to undergo military training in terms of the Defence Act (Act No. 44 of 1957), as amended, is unable to attend technical classes for the duration of any continuous course of study, or to attend technical classes or follow a correspondence course for at least half an academic year, as the case may be, shall not be required to pursue his studies during such year.

(g) The provisions of sub-clauses (c) and (d) shall *mutatis mutandis* apply to an apprentice who has compiled with the provisions of sub-clause (b) or who is already in possession of a higher technical qualification and voluntarily pursues studies relevant to the trade in which he is indentured.

5. *Payment of Class or Course and Examination Fees.*—An employer shall advance the class or course and examination fees payable to the technical institution by an apprentice who is required, or who in terms of sub-clause (g) of clause 4 elects, to attend any classes or follow correspondence courses or enter for any examination, to

die betrokke tegniese inrigting betaal en mag die volle bedrag aldus voorgeskiet, van die loon van die vakleerling aftrek in gelyke maandelikse paaiemente gedurende die kalenderjaar of die res van die kalenderjaar ten opsigte waarvan die voorskot gemaak is, na gelang van die geval; met dien verstande dat—

- (i) indien die vakleerling 'n sertifikaat van die betrokke inrigting toon waarin verklaar word dat hy bevredegende punte vir ywer en vordering behaal het en, behoudens gemagtigde afwesigheid, beide in sy eie tyd en gedurende gewone werkure minstens 90 persent van die moontlike getal klasse bygewoon het of, in die geval van 'n korrespondensiekursus, minstens 90 persent van die volle getal vraestelle gedurende daardie kalenderjaar voltooi het, die bedrag wat ten opsigte van klas- of kursusgelde afgetrek is, deur die werkgever aan die vakleerling terugbetaal moet word;
- (ii) indien 'n vakleerling bewys lewer dat hy in 'n eksamenvak geslaag het, die eksamengeld wat ten opsigte van sodanige eksamenvak van sy besoldiging afgetrek is, deur die werkgever aan die vakleerling terugbetaal moet word.

6. *Ambagstoetse.*—(a) 'n Vakleerling moet so kort moontlik voor die einde van sy tydperk van vakleerling-skap 'n ambagstoets, wat deur die Departement van Arbeid en die Departement van Onderwys, Kuns en Wetenskap afgeneem word, aflê in die praktyk van die ambag waarvoor hy ingeboek is.

(b) 'n Vakleerling wat die onderwyskwalifikasies wat in onderstaande lys gemeld word of gelykwaardige kwalifikasies verwerf het, mag 'n kwalifiserende ambagstoets vrywillig ondergaan in 'n stadium wat nie vroeër mag wees nie as dié in die lys hieronder gemeld. 'n Verdere vrywillige toets of toetse mag onderneem word op 'n datum of datums wat deur die Departement van Arbeid en die Departement van Onderwys, Kuns en Wetenskap bepaal word.

the technical institution concerned and may deduct the full amount advanced, from the wages of the apprentice in equal monthly instalments during the calendar year or the balance of the calendar year in respect of which the advance was made, as the case may be; provided that—

- (i) if the apprentice produces a certificate from the institution concerned that he has obtained satisfactory marks for diligence and progress and, subject to authorised absences, attended both in his own time and during ordinary working hours at least 90 per cent of the possible number of classes, or in the case of a correspondence course satisfactorily completed at least 90 per cent of the full number of papers, during that calendar year, the sum deducted in respect of class or course fees shall be refunded to the apprentice by the employer;
- (ii) if an apprentice produces proof that he has passed in any examination subject, the fee deducted from his remuneration in respect of the examination subject, shall be refunded to the apprentice by the employer.

6. *Trade Tests.*—(a) An apprentice shall undergo a trade test, conducted by the Department of Labour and of Education, Arts and Science, as shortly as practicable before the end of his period of apprenticeship, in the practice of the trade in which he is indentured.

(b) An apprentice who has attained the educational qualifications scheduled hereunder or equivalents, may voluntarily undergo a qualifying trade test at a stage not earlier than that indicated in the Schedule. A further voluntary test or tests may be undertaken on a date or dates to be determined by the Department of Labour and of Education, Arts and Science.

Opvoedkundige kwalifikasies behaal voor of gedurende vakleerling-skap.	Toets mag vrywillig afgele word.	Educational Qualifications attained prior to or during Apprenticeship.	Test may be taken voluntarily.
GROEP I. (i) St. IX- of gelykwaardige sertifikaat, met Wiskunde as een vak waarin geslaag is (ii) Matrikulasie- of gelykwaardige sertifikaat sonder Wiskunde as een van die vakke waarin geslaag is (iii) Nasionale Senior Sertifikaat (nie-tegnies) sonder Wiskunde as 'n vak waarin geslaag is	na 4½ jaar	GROEP I. (i) Std. IX or equivalent certificate with Mathematics as one subject passed (ii) Matric or equivalent certificate without Mathematics as one subject passed (iii) National Senior Certificate (non-technical) without Mathematics as one subject passed	after 4½ years.
GROEP II. (i) Matrikulasie- of gelykwaardige sertifikaat, met Wiskunde as een van die vakke waarin geslaag is (ii) Nasionale Senior Sertifikaat (nie-tegnies) (Matrikulasievystelling), met Wiskunde as een van die vakke waarin geslaag is (iii) Ambagsteorie waarin daar op die peil van Nasionale Tegniese Sertifikaat, Deel II, geslaag is	na 4 jaar	GROEP II. (i) Matric or equivalent certificate with Mathematics as one subject passed (ii) National Senior Certificate (non-technical) (Matric exemption) with Mathematics as one subject passed (iii) Trade Theory pass at National Technical Certificate, Part II, level	after 4 years.
GROEP III. (i) Nasionale Ambagskoolsertifikaat..... (ii) Nasionale Junior Sertifikaat (Tegnies), met Werkwinkelpraktyk as een van die vakke waarin geslaag is (iii) Nasionale Tegniese Sertifikaat, Deel II..... (iv) Nasionale Intermediêre Sertifikaat (Tegnologie) sonder Werkwinkelpraktyk as een van die vakke waarin geslaag is	na 3½ jaar	GROEP III. (i) National Trade School Certificate (ii) National Junior Certificate (Technical) with Workshop Practice as one subject passed (iii) National Technical Certificate, Part II (iv) National Intermediate Certificate (Technology) without Workshop Practice as one subject passed	after 3½ years.
GROEP IV. (i) Nasionale Tegniese Sertifikaat, Deel III..... (ii) Nasionale Intermediêre Sertifikaat (Tegnologie), met Werkwinkelpraktyk as een van die vakke waarin geslaag is (iii) Nasionale Senior Sertifikaat (Tegnologie) sonder Werkwinkelpraktyk as een van die vakke waarin geslaag is	na 3 jaar.	GROEP IV. (i) National Technical Certificate, Part III (ii) National Intermediate Certificate (Technology) with Workshop Practice as one subject passed (iii) National Senior Certificate (Technology) without Workshop Practice as one subject passed	after 3 years.
GROEP V. Nasionale Senior Sertifikaat (Tegnologie, met Werkwinkelpraktyk as een van die vakke waarin geslaag is)	na 2½ jaar	GROEP V. National Senior Certificate (Technology) with Workshop Practice as one subject passed	after 2½ years.

(c) 'n Bedrag van R6 is deur 'n vakleerling betaalbaar ten opsigte van die tweede of enige daaropvolgende poging om in 'n kwalifiserende ambagstoets te slaag wat op 'n vrywillige grondslag kragtens hierdie klousule onderneem word.

(d) 'n Vakleerling wat 'n ambagstoets ingevolge hierdie klousule ondergaan, moet ten opsigte van die tydperk wat bestee word in verband met een vrywillige ambagstoets en die verpligte ambagstoets, sy gewone besoldiging deur sy werkgever betaal word ten opsigte van sodanige tydperk van afwesigheid van werk.

(e) 'n Tydperk van afwesigheid van werk vir die doel om 'n ambagstoets ingevolge subklousule (a) en (b) van hierdie klousule te ondergaan, word nie geag verlore tyd te wees nie.

7. *Opleidingskursusse.*—'n Werkgever moet 'n vakleerling die praktiese opleiding in die ambag waarvoor hy ingeboek is, gee volgens en, vir sover prakties moontlik, in die volgorde vervat in die Bylae van hierdie klousule. 'n Vakleerling moet, vir sover prakties moontlik, opgelei word onder die gereelde toesig van 'n ambagsman wat bevoeg is om hom op te lei in die ambag waarvoor hy ingeboek is.

BYLAE.

Simbole toegewys vir doeleindes van vakleerling se logboek.	Praktiese opleiding.
	AMBAG: BANKWERKER EN DRAAIER (14)
	EERSTE 18 MAANDE.
1.	Veiligheidsmaatreëls wat in werkwinkel nagekom moet word.
2. (a)	Hantering, regte gebruik en versorging en bankgebruik van gereedskap en uitrusting, insluitend:—
(b)	vylwerk,
(c)	saag-, skraap- en boorwerk;
(d)	ruimwerk;
(e)	skroefdraadsny;
(f)	lemmate, mikrometers (binne en buite), wysermeters en silindermeters;
(g)	planne lees en die toepassing daarvan; en
(h)	hantering en versorging van alle werkgereedskap.
3.	Versorging en gebruik van slypstene, bore en gepunte beitels met besondere aandag aan snyhoeke en vry ruimtes.
4.	Elementêre draaiwerk.
	19DE MAAND TOT VIERDE JAAR.
5.	Paswerk van onderdele.
6.	Vervaardiging van onderdele van plan af.
7.	Pas van spy en sleutels.
8.	Pas van laers en busse.
9.	Algemene opleiding in:—
(a)	aanmekaarsit;
(b)	herstel; en
(c)	onderhoud van masjinerie en meganiese toerusting.
10.	Gevorderde draaiwerk op senterdraaibank met inbegrip van—
(a)	binne- en
(b)	buiteskroefdraad sny;
(c)	opstel van werkstukke;
(d)	vasstel van spesiale prosedure; en
(e)	vlakskyf werk.
11. (a)	Binne- en
(b)	buite draaiwerk.
12. (a)	Draai van busse; en
(b)	voerings, vir druk, pers en krimp passings.
13.	Algemene pypwerk, lae- en hoë-druk pypstels.
	VYFDE JAAR.
	Algemene hersiening en selfstandige werk.
	AMBAG: DIESELWERKTUIGKUNDIGE (9).
	EERSTE 18 MAANDE.
1.	Veiligheidsmaatreëls wat in werkwinkel nagekom moet word.
2.	Sorg vir voertuie.

(c) A fee of R6 shall be payable by an apprentice in respect of the second or any subsequent attempt at a qualifying trade test undertaken on a voluntary basis in terms of this clause.

(d) An apprentice undergoing a trade test in terms of this clause shall in respect of the period spent in connection with one voluntary trade test and the compulsory trade test be paid his ordinary remuneration by his employer in respect of such period of absence from work.

(e) A period of absence from work for the purpose of undergoing a trade test in terms of sub-clauses (a) and (b) of this clause shall not be deemed to be lost time.

7. *Courses of Training.*—An employer shall provide an apprentice with the practical training in the trade in which he is indentured in accordance with and, as far as practicable, in the sequence listed in the schedule to this clause. An apprentice shall as far as practicable be trained under the regular supervision of an artisan qualified to train him in the trade in which he is indentured.

SCHEDULE.

Symbols allocated for purposes of apprentice's log book.	Practical training.
	TRADE: ARMAMENT FITTER (32).
	FIRST 18 MONTHS.
1.	Safety measures and first aid generally applicable to the trade.
2.	Use and care of hand tools.
3.	Basic instruction in fitting including filing, sawing, cutting, threading (internal and external), of various metals and drilling.
4.	Marking off.
5.	Machining on lathe and planing.
	19TH MONTH TO FOURTH YEAR.
6. (a)	Checking and repair of armament including;
(b)	breech mechanisms;
(c)	journals; and
(d)	gearboxes and racks.
7.	Repairing and servicing of:—
(a)	depth-bomb droppers;
(b)	mortar breech mechanisms; and
(c)	remote control valves.
8.	Repairing and servicing of armament casing on board and on test bench.
9.	Checking, repairing and servicing of armament including torpedo tubes, sights and depth-discharge gear.
10.	Repair and maintenance of armament hydraulic and pneumatic systems.
11.	Repair and maintenance of armament mechanical equipment, propulsion motors and gearboxes.
12.	Repair and maintenance of electronic remote control equipment under supervision of special artisans.
13.	Experience in general functioning of pneumatic and hydraulic torpedo equipment (not less than 3 months).
	FIFTH YEAR.
	Revision and independent work.
	AUTOMOBILE ELECTRICIAN (17).
	FIRST 18 MONTHS.
1.	Handling, correct use and care of tools and equipment.
2.	Safety precautions to be observed in workshop, and protection of upholstery and paint work.
3.	Mixing of electrolyte.
4.	Fitting of batteries, battery and starter cables.
5.	Soldering cable terminals, lugs and jointing.
6.	Removal and replacement of electrical components.
7.	Battery maintenance:—
(a)	servicing, charging, testing, sealing;
(b)	diagnosis and internal examination; and
(c)	fast chargers; effect of temperature.
8.	Uses of and precautions in connection with electrical measuring instruments.
9.	Overhauling and testing of starter motors and drives.
10.	Spark plugs: servicing and testing.
11.	Use of torque wrench.

Simbole toegewys vir doeleindes van vakleerling se logboek.	Praktiese opleiding.	Symbols allocated for purposes of apprentice's log book.	Practical training.
3. 4.	Veilige bestuurgewoontes. Uitken, hanteer, regte gebruik en versorging van gereedskap, uitrusting en alle tipes sleutels, insluitende:— (a) die wringsleutel; (b) pons- en dryfysters; (c) bore, ruimers, stok en snymoere en snytappe; (d) staalliniaie, verdeelpassers, meetpassers en kraspenne; (e) metaalsae; (f) lemme, mikrometers (binne en buite), wysermeters en silindermeters; (g) hidrouliese domkragte, bokke rolmatte (kruipers) en hystoestelle; (h) kompressors; (i) slypmasjiene; en (j) sluittoestelle.		19TH MONTH TO FOURTH YEAR.
5.	Waar geriewe bestaan—insleep, gewoon en met takelwa.		12. Servicing, testing and timing of magnetos. 13. Overhauling, testing and polarising of generators. 14. Care and operation of equipment used in diagnosis and testing of automotive electrical components. 15. Battery and coil ignition systems; testing coil and condenser and ballast resistance. 16. Distributor:— (a) Checking shaft, bushes and cam for wear; and (b) installation of bushes; servicing and aligning contact points; checking dwell and synchronising points.
6.	Smeer van en diens gee aan voertuie:— (a) gebruik van verskillende grade en soorte olies en ghries; (b) metodes van aftap, uitspoel, diens gee aan en volmaak van enjinoliebakke, ratkaste en agterasomhuise; en (c) diens gee aan batterye: elektroliet opvul, batterykas, aansluitpenne en kabels skoonmaak.	17. Setting ignition timing and adjusting for engine condition and altitude. 18. Use of:— (a) timing lights; (b) tachometer; and (c) vacuum gauge.	17. Setting ignition timing and adjusting for engine condition and altitude. 18. Use of:— (a) timing lights; (b) tachometer; and (c) vacuum gauge.
7.	Onderrig in generatorklaistelsels.	19. Rewiring of motor vehicle and reading wiring diagrams.	19. Rewiring of motor vehicle and reading wiring diagrams.
8.	Onderzoek en vasstelling van slytasie:— (a) in silinders; (b) aan krukas; (c) hoof- en grootkopastappe; (d) nokas-tappe; (e) nokvolgers; (f) kleppe en leiërs; (g) suiers en suierpenne; en (h) tuimelaars en asse.	20. Trouble shooting: checking for open circuits, short circuits, earths, resistance and voltage drop. 21. Testing, servicing, repair and adjustment of:— (a) cut-outs; (b) regulators; (c) centrifugal governors; (d) solenoid switches; (e) vacuum controls; (f) panel instruments; (g) circuits, switches, lamps and horns; (h) heater fans; (i) relays; (j) rheostats; (k) traffic indicators; (l) windshield wiper motors; (m) electrical fuel pumps; (n) transmission electrical controls; and (o) alternators and regulators.	20. Trouble shooting: checking for open circuits, short circuits, earths, resistance and voltage drop. 21. Testing, servicing, repair and adjustment of:— (a) cut-outs; (b) regulators; (c) centrifugal governors; (d) solenoid switches; (e) vacuum controls; (f) panel instruments; (g) circuits, switches, lamps and horns; (h) heater fans; (i) relays; (j) rheostats; (k) traffic indicators; (l) windshield wiper motors; (m) electrical fuel pumps; (n) transmission electrical controls; and (o) alternators and regulators.
9.	Ontkool; inslyp van kleppe; terugsit van silinderkop (met gebruik van wringsleutel en regte vadsraai-volgorde); en stel van klepspel.	22. Focusing of headlights. 23. Tune-ups. 24. Lashing valves. 25. Checking cooling systems. 26. Where facilities exist—maintenance and testing of cold starting devices. 27. Diagnosing of faults.	22. Focusing of headlights. 23. Tune-ups. 24. Lashing valves. 25. Checking cooling systems. 26. Where facilities exist—maintenance and testing of cold starting devices. 27. Diagnosing of faults.
10. Padwiele:	Afhaal en terugsit van wiele, buite- en binnebande; rotasie van wiele.		FIFTH YEAR.
11.	Afhaal en terugsit van— (a) koppelaars; (b) ratkaste; (c) dryfasse en kruiskoppelings; (d) vere en hangers; (e) vooras-samestelle; (f) agter-as-samestelle; (g) skokbrekers en dempstelsels; (h) enjinsamestelle; (i) enjintoebehore; (j) stuurkaste en skakelings; (k) veringeenhede; (l) remskoensamestelle; en (m) uitlaateenhede.		Revision.
12.	Enjineenhede: uitmekaarhaal en volledige inmekar-sit van enjin, insluitende opknapping en insit van— (a) suiers, ringe en suierpenne; (b) hoof- en grootkoplaers; (c) klepleiers en kleppe—vernuwing van beddings en klepvlakke; klepvere vir spanning nagaan; (d) suierstange (waar geriewe bestaan—nagaan en in lyn bring); en (e) vliegwieleranse.		AUTOMOTIVE MACHINING AND FITTING (18). FIRST 18 MONTHS.
13.	Tydreëling— (a) kleppe; en (b) ontstekings.	1. Handling, correct use and care of: tools, equipment and motor vehicle engine parts. 2. Safety precautions to be observed in workshop. 3. Dismantling of engines. 4. Simple operations on single-purpose machines. 5. Remounting of bearings and conrods.	
14.	Koelstelsels— (a) nagaan vir lekke en verstoppings; verkoelers en enjinblokke skoonmaak; nuwe verkoelerslange aansit; (b) termostate nagaan; (c) waterpompe opknep; en (d) waaiërbande vir toestand en spanning nagaan.	6. Simple lathe work. 7. Reborring cylinders and fitting sleeves. 8. Line and conrod boring. 9. Valve seat and valve refacing; making and fitting or valve seat inserts. 10. Fitting of valve guides and valves. 11. Assembling of sub-assemblies. 12. Piston grinding. 13. Piston pin fitting. 14. Resizing and alignment of conrods. 15. Grinding crankshafts and camshafts. 16. Where facilities exist:— (a) operation of equipment for balancing engine components; (b) crack detection; and (c) dynamometer testing.	19TH MONTH TO FOURTH YEAR.
15.	Opknapping, bepaling van slytasie, weer inmekarsit en stel waar nodig— (a) koppelaars; (b) ratkaste; (c) dryfasse; (d) einddryf-samestelle; (e) agter-as-samestelle; (f) vooras-samestelle; (g) kompressor-eenhede; en (h) veringstelsels.		FIFTH YEAR.
16.	Remstelsels: Herstel en opknep van onderdele— (a) vakuumkrag; en (b) hidroulies.		Revision.

Simbole toegewys vir doeleindes van vakleerling se logboek.	Praktiese opleiding.	Symbols allocated for purposes of apprentice's log book	Practical training.
17.	Toets, diagnoseer en herstel van foute met nadruk op stel en herstel van eenhede en onderdele.		BOILERMAKER (10).
18.	In stand hou en herstel van brandstofpompstelsels.		FIRST 18 MONTHS.
19.	Voorstelverbetering; wielbalans; bandfoute.		1. First aid and safety precautions applicable to the trade.
20.	Raamrigting.	2.	Marking off.
21. Waar	geriewe bestaan—	3.	Shearing.
(a)	in stand hou en opknapping van brandstofin-spuitselsels;	4.	Punching and other routine work.
(b)	toets, diagnoseer en herstel van foute in krag-aangedrewe eenhede en outomatiese trans-missie; en	5.	Simple lay-outs.
(c)	in stand hou en opknop van alternatorlaaistelsels.	6.	Oxy-acetylene cutting.
			Use and application of universal and line oxy-acety-lene cutting machines.
	VYFDE JAAR.		19TH MONTH TO FOURTH YEAR.
	Hersiening.	7.	Dimensional drawings:—
	AMBAG: ELEKTRISIËN (11).	(a)	interpretation;
	EERSTE 18 MAANDE.	(b)	application to plating; and
1.	Veiligheidsbeginsels wat normaalweg aanvaar word as van toepassing te wees op die ambag.	(c)	application to angle work.
2.	Gebruik en versorging van handgereedskap.	8.	More advanced lay-outs and developments.
3.	Algemene basiese paswerk met inbegrip van—	9.	Template lay-outs.
(a)	vyfwerk;	10.	Angle and iron smithing.
(b)	saagwerk;	11.	Electric welding of mild steel.
(c)	skroefdraadsny met stok en snymoere en sny-tappe; en	12.	Boilers—repairing and new boilers.
(d)	beginsels van afmerk, boorwerk en soldeerwerk.		FIFTH YEAR.
4.	Eenvoudige installasies—		Revision and independent work.
(a)	dryfwerk (chasing);		BRICKLAYING (15).
(b)	bepyping en aansit van skakelaars, proppe en ligte;		FIRST 18 MONTHS.
(c)	bedrading en diagramme;	1.	First aid.
(d)	beveiliging met gronddraad;	2.	Safety precautions applicable to the trade.
(e)	enkel- en tweerigting skakelaars; en	3.	Use, upkeep and storage of tools.
(f)	klokkies en aanwysers (beide gelyk en wisselstroom).	4.	Handling of and properties of materials including cement, limes, sands, aggregates, bricks.
(g)	Samestelling en installering van verdelingsborde.	5.	Preparation of mortars.
5.	Bedrading van skakelaars (three heat) en termostaat	6.	Use of different bonds.
6.	en instandhouding en herstel van huishoudelike toestelle.	7.	Joints of brickwork.
	19DE MAAND TOT VIERDE JAAR.	8.	Simple scaffolding.
7.	Kontinuiteit, isolasie en gronddraadtoetsing.	9.	Reading of drawings and technical terms.
8.	Gebruik van Megger.		19TH MONTH TO FOURTH YEAR.
9.	Kragverdelingsborde;	10.	Setting out from plans.
(a)	meetinstrumente;	11.	Mixing of mortars and concretes for different pur-poses such as:—
(b)	pasmaakwerk;	(a)	footings;
(c)	skakelborde; en	(b)	foundations; and
(d)	opbou van meters en kontroletoeusting.	(c)	brickwork.
(e)	Installering en onderhoud van gelyk- en wisselstroom-motors;	12.	Building in of:—
(f)	ontwikkelaars;	(a)	window frames; and
(g)	herleiers;	(b)	door frames.
(h)	reostaat;	13.	Laying of concrete floors.
	skakelaars;	14.	Facebrick work.
	aansitters;	15.	Piers.
	drukknop afstand- en nabybeheerskakelaars;	16.	Reinforced concrete construction.
	versorging en instandhouding van batterye.	17.	Coping and sill tiling.
11.	Bedrading van bostaande van en na verdelingsbord.	18.	Arch construction.
12.	Afmaak van kables.	19.	Fireplaces, furnaces and flues.
13.	Grondkoppeling van skakelborde en materiaal wat gebruik word.	20.	Methods of cleaning down facebrick work.
14.	Toets van installasies en motors.	21.	Brickwork, quantities and measurements of.
15.	Foute opspoor en herstel.	22.	Plastering of walls, ceilings and skirtings.
16.	Werk volgens diagramme en rekening.	23.	Lay down, screed and finish granolithic floors.
17.	Transformator en hoogspanningskakeling-installasie en onderhoud.	24.	Rough cast plastering and pebble dashing.
18.	Beginsels van ankerwikkeling.	25.	Wall tiling.
19.	Oprigting van hoog en laagspanningslyne.	26.	Underpinning, screeding and granolithic work.
	VYFDE JAAR.	27.	Fixing precast concrete and reconstructed stone blocks.
	Hersiening en onafhanklike werk.	28.	Laying of:—
	AMBAG: ELEKTRO-MEGANIKUS (12).	(a)	paving;
	EERSTE 18 MAANDE.	(b)	slabs;
1.	Veiligheidsmaatreëls en eerste hulp normaalweg op die ambag van toepassing.	(c)	large-diameter pipes; and
2.	Basiese opleiding onder toesig van geskikte persone in die volgende:	(d)	storm-water drains.
(a)	Elektrisië (5 maande) (Slegs handgereedskap):	29.	Building of manholes.
(i)	Gebruik van handgereedskap wat nie by elek-triese werk gebruik word nie.	30.	Random stone walling.
(ii)	Sagte- en harde soldeerwerk.		FIFTH YEAR.
(iii)	Las van drade.		Revision and independent work.
			CARPENTRY AND JOINERY (30).
			FIRST 18 MONTHS.
		1.	First aid.
		2.	Safety precautions applicable to the trade.

[illegible]

Simbole
toegewys
vir
doeleindes
van
vakleerling
se logboek.

Praktiese opleiding.

AMBAG: GEREEDSKAPVERVAARDIGING (32).

EERSTE 18 MAANDE.

1. Onderrig in veiligheidsmaatreëls normaalweg op die ambag van toepassing.
 2. Name van gereedskapstukke.
 3. Gebruik en versorging van gereedskap.
 4. Gebruik en versorging van meetinstrumente.
 5. Bankwerk met besondere aandag aan—
 - (a) vylwerk;
 - (b) saagwerk;
 - (c) skraapwerk;
 - (d) boorwerk;
 - (e) ruimwerk;
 - (f) skroefdraadwerk; en
 - (g) kapsnywerk.
 6. Lees van planne en toepassing daarvan.
 7. Sterkte en kwaliteite van materiale.
 8. (a) Elementêre paswerk;
 - (b) Elementêre masjienwerk; en
 - (c) Elementêre afmerk wat deel uitmaak van die vervaardiging van gereedskap, setmate, skoorstukke en meters.
- 19DE MAAND TOT VIERDE JAAR.
9. (a) Onderrig in werk op alle klasse masjiengereedskap en bankwerk, met inbegrip van die maak van—
 - (b) meters; en
 - (c) gevorderde afmerkwerk wat gewoonlik deel uitmaak van vereistes i.v.m. die gereedskapkamer.
 10. Hitte-behandeling van metaal en kennis van eien-skappe van materiaal.
 11. Lees en toepassing van tekenings.
 12. Inspeksie van proses en van klaargemaakte artikel.
 13. Gebruik van spesiale masjiene wat nie voortdurend in die ambag gebruik word nie.

VYFDE JAAR.

Hersiening en onafhanklike werk.

AMBAG: GIETER (18).

EERSTE JAAR.

1. Eerste hulp.
2. Veiligheidsmaatreëls gedurende—
 - (a) vorm;
 - (b) giet;
 - (c) afskuim; en
 - (d) voer.
3. Eenvoudige kerns—
 - (a) maak;
 - (b) luggate maak;
 - (c) swart maak; en
 - (d) droog.
4. Versorging van kernbakke.
5. Gebruik van gereedskap, toestelle en materiaal.
6. Meng van kernsand.
7. Vorming van kernwapening.
8. Maak van eenvoudige "groen" of natsandgietsvorms en plasing van kerns en afsluiting daarvan.
9. Maak van eenvoudige gietysterkernysters.

TWEDE TOT VIERDE JAAR.

10. Maak van meer gevorderde tipes vorms uit nat en droë sand, waarby vereis word—
 - (a) afsny van gietnate;
 - (b) vasklem;
 - (c) kern; en
 - (d) afsluit en giet.
 11. Meng van gietsand.
 12. Versorging van patrone.
 13. Ondervinding by smelteenhede.
 14. Opleiding op gietmasjiene (hoogstens 4 maande).
 15. Gevorderde kernmaak- en gietwerk insluitende—
 - (a) skelet;
 - (b) afskyf; en
 - (c) leemvorms.
 16. Maak van gietysterkernysters.
 17. Onafhanklike gietwerk op algemene werkvloer.
 18. Oksiasietleensnywerk soos van toepassing op die ambag.
 19. In gieterye met meer as een afdeling, d.w.s.—
 - (a) yster;
 - (b) staal; en
 - (c) geelkoper.
- (Vakleerlinge moet 6 maande in een of meer van die ander afdelings gedurende 3de leerjaar deurbring).

Symbols
allocated for
purposes of
apprentice's
log book.

Practical training.

11. Learning of methods of tinning and metalling of bearings.
12. Manufacture of complicated sheet-metal shapes.
13. Specialised training in the welding of ferrous and non-ferrous metals.

FIFTH YEAR.

Revision and independent work.

CONSTRUCTION PLANT MECHANIC (33).

FIRST 18 MONTHS.

1. Safety precautions and first aid normally applicable to the trade.
 2. Care of vehicles and equipment.
 3. Use and care of all hand tools.
 4. Where facilities exist, the towing and recovery of vehicles.
 5. Lubrication and ordinary servicing of vehicles and equipment.
 6. Maintenance and repair of:—
 - (a) generators; and if possible;
 - (b) alternators.
 7. Dismantling and assessment of wear on parts viz:—
 - (a) cylinders;
 - (b) crankshaft;
 - (c) bearings;
 - (d) camshaft bearings;
 - (e) push rods;
 - (f) valves and guides; and
 - (g) pistons and gudgeon pins.
 8. Decarbonising; grinding of valves; replacing cylinder head with special attention to specifications and use of torque wrench and adjusting valve clearances.
 9. Removal and replacement of wheels including puncture repairing and replacement of tyres and tubes.
 10. Removal and replacement of:—
 - (a) clutches;
 - (b) gearboxes;
 - (c) differentials;
 - (d) driving shafts;
 - (e) rear axle system;
 - (f) front axle system;
 - (g) engine parts;
 - (h) engine units;
 - (i) steering systems;
 - (j) braking systems;
 - (k) exhaust systems;
 - (l) hydraulic units; and
 - (m) "power take-off", systems.
 11. Engine units—petrol and diesel—dismantling and assembling thereof after complete repair of all parts including:—
 - (a) pistons, rings and gudgeon pins;
 - (b) all bearings;
 - (c) valve guides and valves, valve springs and valve seats;
 - (d) connecting rods;
 - (e) ring gears; and
 - (f) timing gears.
 12. Sparking and opening sequence of valves and ignition system.
 13. Complete servicing, repair and maintenance of cooling systems including oil cooling.
 14. Engine tune-up without instruments.
- 19TH MONTH TO FOURTH YEAR.
15. Complete repairing of, assessment of wear, mounting and alterations to:—
 - (a) clutches;
 - (b) transmissions;
 - (c) propeller shafts and joints;
 - (d) rear axle units;
 - (e) front axle units;
 - (f) steering units;
 - (g) suspension units;
 - (h) brake systems;
 - (i) petrol pumps;
 - (j) carburettors;
 - (k) ignition systems;
 - (l) hydraulic systems; and
 - (m) wheel balancing systems.
 16. Check and adjust:—
 - (a) toe-in;
 - (b) castor;
 - (c) camber;
 - (d) king pin inclination; and
 - (e) toe-out.

Simbole toegewys vir doeleindes van vakleerling se logboek.	Praktiese opleiding.	Symbols allocated for purposes of apprentice's log book.	Practical training.
	VYFDE JAAR.		
	Hersiening en onafhanklike werk.		
	AMBAG: INDUSTRIËLE ELEKTRONIKA- WERKTUIGKUNDIGE (15).		
	EERSTE 18 MAANDE.		
1.	Veiligheidsmaatreëls en eerste hulp normaalweg op die ambag van toepassing.	17.	Elementary gas and electrical welding; brazing and soldering.
2.	Versorging en regte gebruik van gereedskap en toerusting.	18.	Testing, fault diagnosis and remedying of:—
3.	Boorwerk, afmerkwark en aanmekarpas van samestellende onderdele.	(a)	ignition faults;
4.	Soldeerwerk—bedrading en gedrukte stroombane met inbegrip van semigeleierwerk.	(b)	fuel faults;
5.	Gebruik van eenvoudige toetsuitrusting (multimeters, R.F. seingenerators, ens.)	(c)	engine faults;
6.	Versorging en instandhouding van W.S. en G.S. breukperdekragmotors.	(d)	clutch faults;
7.	Weerafleiding soos van toepassing.	(e)	gearbox faults;
8.	Lees van diagramme en interpretasie van diensinstruksies.	(f)	propeller shaft faults;
9.	Herstel, verstelling en instandhouding van kontroles, skakelaars en relaise.	(g)	differential faults;
10.	Kragvoorsiening (gereguleerde en ongereguleerde).	(h)	brake faults;
	19DE MAAND TOT VIERDE JAAR.	(i)	steering faults;
11.	Beskerming van toerusting teen oorspannings, spanningsdeining, abnormale temperature, vogtigheid, meganiese spannings, veral in draagbare toerusting.	(j)	suspension faults;
12.	Foutnaspeuring in elektroniese toerusting en sistematiese metode moet beklemtoon word.	(k)	electrical faults;
13. (a)	Kennis en gebruik van elektronika apparaat soos ossilloskoop, suins vierkantige en komplekse golfontwikkelaars, brúe en elektroniese voltmeters; en die gebruik van bogenoemde apparaat in stroombaananalise en foutnasporing.	(l)	faults in engine components; and
(b)	Notering van seine (data) d.m.v. magnetiese band.	(m)	faults in power take-off systems.
14. (a)	Gebruik en toets van buise en semigeleiertoelele; en ontwikkeling van gedrukte stroombane en metodes van vervaardiging.	19.	Electrical equipment:—
15. (b)	W.S. en G.S. versterkers; en meting van fisiese eienskappe bv. tyd, deformasie, diktedrukking, aantal, ens.	(a)	battery servicing and charging;
16. (a)	Elementêre gebruik van en werk aan—	(b)	generator (bushes, bearings, brushes and cleaning of commutator);
(b)	tweeledige gekodeerde stelsels;	(c)	starter motor (same as for generator).
(c)	geslote stroombaan televisie;	20.	Correct use of:—
(d)	berekenaars;	(a)	compression tester;
(e)	stralingskakelaars;	(b)	vacuum gauge;
(f)	Geiger-Muller buise;	(c)	ammeter and voltmeter;
(g)	stralingsbronne; en magnetiese versterkers.	(d)	tachometer;
18.	Gebruik van magnetiese, kapasitiewe en induktiewe benaderingstoestelle.	(e)	fuel pump pressure gauge;
19.	Impulsosilators en Osilatorstroombane.	(f)	timing light;
20.	Elementêre werk aan en kennis van—	(g)	exhaust gas analysers;
(a)	relais- en skakelstroombane;	(h)	condenser and coil testers; and
(b)	foto-elektriese toestelle;	(i)	spark plug cleaners and testers.
(c)	elektromagnetiese toestelle;	21.	Handling and use of lifting equipment.
(d)	vaste staat skakeltoerusting met inbegrip van monostabiele en bistabiele toestelle;		
(e)	deurskakelaars;		
(f)	tiratronbeheer van motore;		
(g)	wipskakeling ophefstroombane;		
(h)	sinkron- en servostelsel;		
(i)	R.F. verwarmingstoerusting;		
(j)	direk-uitlesende tellers en meters;		
(k)	eenvoudige geheuestelsels.		
	VYFDE JAAR.		
	Hersiening en onafhanklike werk.		
	AMBAG: INGENIEURSGROFSMID (13).		
	EERSTE JAAR.		
1.	Eerste hulp en veiligheidsmaatreëls soos van toepassing op die ambag.		
2.	Vure in oop herde maak en aan die gang hou.		
3.	Steenkool, kooks en klinkers sorteer.		
4.	Oonde reguleer.		
5.	Regte manier om te slaan.		
6.	Gebruik van—		
(a)	voorhamers;		
(b)	saals; en		
(c)	vormysters.		

Simbole toegewys vir doeleindes van vakleerling se logboek.	Praktiese opleiding .	Symbols allocated for purposes of apprentice's log book.	Practical training .
7.	Maak van eenvoudige smidsgereedskap en smeestukke.	(g)	shock absorbers and damper systems;
8.	Onderskei tussen yster, staal en gietyster volgens korrel en breuk.	(h)	engine assemblies;
9.	Kennis van ferrometale en hul eienskappe.	(i)	engine accessories;
10.	Lees van tekenings.	(j)	steering boxes and linkages;
		(k)	suspension units;
		(l)	brake shoe assemblies; and
		(m)	exhaust units.
11.	TWEDE TOT VIERDE JAAR. Maak van klein smeestukke soos—	12.	Engine units: Dismantling and complete assembling of engines, including overhauling and fitting of the following parts:—
(a)	pypklampe;	(a)	pistons, rings and gudgeon pins;
(b)	U-boute;	(b)	main and big-end bearings;
(c)	haakspykers (spoorspykers); en	(c)	valve guides and valves—recondition seats and valve faces; check valve springs for tension;
(d)	vloerpenne.	(d)	connecting rods (where facilities exist—check and align), and
12.	Onderrig oor regte temperatuur vir smee- en vuur-sweiswerk, klein smeestukke en smeewerk oor die algemeen.	(e)	flywheel ring gears.
13.	Werkstukke temper op grond van kleurwaarneming.	13.	Set timing:—
14.	Oksiasetileensnywerk.	(a)	valve; and
15.	Stoom- of kraghamers hanteer en daarmee smee.	(b)	ignition.
16.	Buig van—	14.	Cooling systems:—
(a)	staalpype; en	(a)	check for leaks or blockages; cleaning radiators and engine blocks; fit new radiator hoses;
(b)	stawe.	(b)	check thermostats;
17.	Berekening van hoeveelhede materiaal wat nodig is.	(c)	overhaul water pumps; and
18.	Alle aambeeldwerk, lig en swaar.	(d)	check fan belts for condition and tension.
19.	Wielbande aankrimp en soortgelyke werk met onderrig oor regte spelings.		
20.	Maak en temper van gereedskap soos—		19TH MONTH TO FOURTH YEAR.
(a)	rotsbeitels;	15.	Overhaul, assess for wear, reassemble and adjust where necessary:—
(b)	beitels; en	(a)	clutches;
(c)	byle.	(b)	gearboxes;
21.	Snelgereedskap en allooiastaal smee en temper waar beheerde temperatuur nodig is.	(c)	propeller shafts;
22.	Uitgloeing en normalisering.	(d)	final drive assemblies;
23.	Valsmeewerk.	(e)	front axle assemblies;
		(f)	rear axle assemblies;
		(g)	compressor units; and
		(h)	suspension systems.
	VYFDE JAAR.	16.	Brake systems: repair and overhaul of component parts:—
	Hersiening en onafhanklike werk.	(a)	vacuum power; and
	AMBAG: KETELMAKER (4).	(b)	hydraulic.
	EERSTE 18 MAANDE.	17.	Testing, diagnosis and rectification of faults with emphasis on adjustment and repair of units and component parts.
1.	Eerste hulp en veiligheidsmaatreëls soos van toepassing op die ambag.	18.	Maintenance and repair of fuel pump system.
2.	Afmerk.	19.	Front end correction; wheel balancing; tyre faults.
3.	Afknip.	20.	Frame alignment.
4.	Pons- en ander roetinewerk. Eenvoudige ontwerpe.	21.	Where facilities exist:—
5.	Oksiasetileensnywerk.	(a)	maintenance and overhaul of fuel injector system;
6.	Gebruik en aanwending van universele en lyn-oksi-asetileensnymasjiene.	(b)	testing, diagnosis and rectification of faults on power operated units and automatic transmission; and
	19DE MAAND TOT VIERDE JAAR.	(c)	maintenance and overhaul of alternator charging systems.
7.	Maattekenings—		
(a)	uitleg;		FIFTH YEAR.
(b)	toepassing op plaatwerk; en		Revision and independent work.
(c)	toepassing op hoekwerk.		ELECTRICAL FITTER (5).
8.	Meer gevorderde ontwerpe en ontwikkeling.		FIRST 18 MONTHS.
9.	Patroonontwerpe.	1.	Safety measures and first aid generally applicable to the trade.
10.	Hoek- en ystersmidswerk.	2.	Basic fitting including filing, sawing, chiseling, paying particular attention to copper and bronze.
11.	Elektriese sweising van sagte staal.	3.	Threading (internal and external);
12.	Stoomketels—herstelwerk en nuwe ketels.	(a)	marking off; and
	VYFDE JAAR.	(b)	all types of soldering.
	Hersiening en onafhanklike werk.	(c)	Simple turning of various metals.
	AMBAG: KOPERSMID (7).	4.	Bearings used in electrical motors and removing and replacing bearings.
	EERSTE 18 MAANDE.	5.	Repairing driving mechanisms including belt pulleys and direct coupling.
1.	Veiligheidsmaatreëls en eerste hulp normaalweg op die ambag van toepassing.	6.	Simple repairs to electrical equipment on ships.
2.	Die uitkenning, gebruik en instandhouding van handgereedskap.	7.	Repair and maintenance of heaters.
3.	Sketse lees.		
4.	Onderrig in die metodes van—		19TH MONTH TO FOURTH YEAR.
(a)	soldeerwerk;	9.	Overhauling, repairing and maintenance of fan motor starters, M.-type motors, including winding of coils (field and solenoid).
(b)	sweisoldeerwerk; en	10.	Dismantling, repairing and assembling direct and alternating current motors.
(c)	vertinning.	11.	Use and care of ammeters, voltmeters, ohmmeters and megohmmeters.
5.	Kennis van en die gebruik van materiale.		
	19DE MAAND TOT VIERDE JAAR.		
6.	Eenvoudige plaatmetaalvorms ontwerp en maak.		
7.	Metodes van omflensing, pypbuiging en die maak van kopertakstukke.		
8.	Metodes van las met 'n oksi-asetileenvlam en elektrisiteit.		

Simbole toegewys vir doeleindes van vakleerling se logboek.	Praktiese opleiding.	Symbols allocated for purposes of apprentice's log book.	Practical training.
9.	Metodes van pyaanleg deur die gebruik van drade en vorms leer.	12.	Repair and testing of radar aerials and cables.
10.	Gebruik van alle masjiene in die kopersmidswinkel aanleer.	13. (a)	Installation and maintenance of ship's lighting;
11.	Metodes van verbinding en metallisering van laers leer.	13. (b)	maintenance of ship's cables.
12.	Ingewikkelde plaatmetaalvorms maak.	14.	Installation of generating equipment in diesel sections
13.	Gespesialiseerde opleiding in die sweis van ferro- en nie-ferrometale.	15.	Installation of mains systems.
	VYFDE JAAR.		Wiring of ship's engine and boiler rooms.
	Hersiening en onafhanklike werk.	16.	Installation of sound amplification systems.
	AMBAG: LETTERSKILDER (31).	17.	Installation and wiring of ship's radio rooms, sonar equipment and captain's quarters.
	EERSTE 18 MAANDE.	18.	Fitting of sighting fixtures and other equipment on armament.
1.	Eerstehulp en veiligheidsmaatreëls op die ambag van toepassing.	19.	Marking off, servicing and maintenance of MF, HF, VHF and UHF conductors on equipment and overhead wires.
2.	Gebruik en versorging van gereedskap en materiaal.		Installation of gyro compass and all related control equipment.
3.	Bereiding van oppervlaktes.		FIFTH YEAR.
4. (a)	Gebruik van kleurstowwe;		Revision and independent work.
4. (b)	gebruik van verdunners; en		ELECTRICIAN (3).
4. (c)	gebruik van droogmiddels.		FIRST 18 MONTHS.
5.	Hoe om verf aan te sit.	1.	Safety measures and first aid generally applicable to the trade.
6.	Ou verf afhaal.	2.	Use and care of hand tools.
	19DE MAAND TOT VIERDE JAAR.	3.	General basic fitting including:
7.	Verf meng en aansit.	(a)	filig;
8.	Primêre en sekondêre kleure.	(b)	sawing;
9.	Alle soorte oppervlaktes verf en vernis.	(c)	threading by means of stocks and dies and taps; and
10.	Gevorderde verfwerk.	(d)	principles of marking off, drilling and soldering.
11.	Vernis en kleurvermenging en algemene kennis van skilder.	4. (a)	Simple installation:—
12.	Alle soorte letters afmerk en vorm, met inbegrip van bladgoudwerk.	(b)	chasing;
13.	Oprig van steiers en lere.	(c)	conduits and fixing of switches, plugs and lights;
	VYFDE JAAR.	(d)	wiring and diagrams;
	Hersiening en onafhanklike werk.	(e)	protection by means of earthing;
	AMBAG: LOODGIETERSWERK (23).	(f)	one- and two-way switches; and
	EERSTE 18 MAANDE.	(g)	bells and indicators (both direct and alternating current).
1.	Eerste hulp.	5.	Construction and installation of distribution boards.
2.	Veiligheidsmaatreëls soos van toepassing op die ambag.	6.	Wiring of switches (three-heat) and thermostats and maintenance and repairs to domestic appliances.
3.	Versorging en gebruik van gereedskap.		19TH MONTH TO END OF FOURTH YEAR.
4.	Materiaal en masjiene.	7.	Continuity, insulation and testing of earths.
5.	Plaatmetaalwerk—elementêr.	8.	Use of megger.
6.	Gebruik van—	9. (a)	Power distribution boards;
(a)	pyptoebehore; en	(b)	measuring instruments;
(b)	verskillende soorte wasters en pakkings.	(c)	fitting;
7.	Eenvoudige patrone uitsny.	(d)	switch boards; and
8.	Pype afsny en skroefdraad insny.	(e)	construction of meters and controlling equipment.
9.	Maak van—	10. (a)	Installation and maintenance of direct and alternating current motors;
(a)	geute; en	(b)	generators;
(b)	geutpype.	(c)	convertors;
10.	Van planne af werk.	(d)	rheostat;
11.	Soldeer.	(e)	switches;
12.	Vertin.	(f)	starters;
13.	Klink.	(g)	push-button remote and proximity control switches; and
14.	Gebruik van smeltmiddels.	(h)	care and maintenance of batteries.
15.	Tegniese terme.	11.	Wiring of the above from and to distribution board.
	19DE MAAND TOT VIERDE JAAR.	12.	Making-off of cables.
16.	Pype—	13.	Earthing of switch boards and materials used.
(a)	afsnny;	14.	Testing of installations and motors.
(b)	skroefdraad insny;	15.	Tracing of faults and repairs.
(c)	las; en	16.	Working according to diagrams and calculations.
(d)	lê.	17.	Transformers and high-voltage switch gear, installation and maintenance.
17.	Aansit—	18.	Principles of armature winding.
(a)	afsluitkrane;	19.	Erection of high- and low-tension lines.
(b)	kleppe;		FIFTH YEAR.
(c)	uitdylasse (uitsitvoë);		Revision and independent work.
(d)	koperpype;		ELECTROMECHANICIAN (4).
(e)	mors- en uitlaatpype;		FIRST 18 MONTHS.
(f)	speders (stanksluiters);	1.	Safety measures and first aid generally applicable to the trade.
(g)	lugpype;	2.	Basic training under the supervision of suitable persons in the following:
(h)	geute; en	(a)	Electrician (5 months): (Hand tools only).
(i)	geutpype; en	(i)	Use of hand tools not used in electrical work.
(j)	oorslaglasse.	(ii)	Soft soldering and brazing.
18.	Installering van warmwaterstelsels.		
19.	Beginsels van rioolstelselontwerp.		
20.	Verskillende soorte rioolpype lê en las.		

Simbole toegewys vir doeleindes van vakleerling se logboek.	Praktiese opleiding	Symbols allocated for purposes of apprentice's log book.	Practical training.
21. (a) (b) (c)	Installering van— gemak- en urinaalstelle; spoelbakke en sperders; en gietysterwerk (algemeen).	(iii) (iv)	Jointing of wires. Work in connection with coils, resistances and component parts of starters; relays and contactors.
22.	Lees van planne en spesifikasies.	(v)	Knowledge and use of conductors and in- sulators in general use.
23.	Praktiese toepassing van munisipale regulasies, waar van toepassing.	(b)	Fitting (5 months): (Hand tools only);
24.	Gevorderde plaatmetaalwerk.	(i)	Marking off;
25.	Meters—	(ii)	filing and scraping;
(a)	aansit; en	(iii)	splintering and sawing;
(b)	lees.	(iv)	use of measuring instruments;
26.	Gebruik van oksiasetileenuitrustung.	(v)	threading (internal and external);
27.	Sweissoldeer.	(vi)	basic fitting; and
28.	Sweis.	(vii)	knowledge and uses of various metals in general use.
29.	Loodpype las en lê.	(c)	General:—
30.	Verdikking van plaatlood.	(i)	General experience in maintenance workshop including reading of drawings (4 months).
31.	Putriole (septiese tenks)—	(ii)	General experience in electrical workshop (4 months).
(a)	installering; en		
(b)	instand hou.		
32.	Bou van instygs Kagte.		
33.	Loodlaswerk.		
	VYFDE JAAR.		19TH MONTH TO FOURTH YEAR.
	Hersiening en onafhanklike werk.	3. (a)	Maintenance;
		(b)	erection; and
		(c)	installation of machinery (mechanical) including cranes.
	AMBAG: MAKER EN HERSTELLER VAN WETENSKAPLIKE INSTRUMENTE (29).	4. (a)	Maintenance;
		(b)	erection; and
		(c)	installation of moving and control equipment (elec- trical) including cranes.
	EERSTE 18 MAANDE.	5.	General electrical work.
1.	Eerstehulp en veiligheidsmaatreëls normaalweg op die ambag van toepassing.	6.	Intensive training under supervision in—
2.	Of onder toesig van 'n instruksentoor of onder toesig van 'n ambagsman die—	(a)	maintenance of all kinds of control equipment and
(a)	gebruik, hanteer en versorging van meetinstru- mente;	(b)	reading and applying of equipment diagrams.
(b)	gebruik en slyp van bore;		70 Per cent of training time to be devoted to electrical work where possible.
(c)	vylwerk; en		
(d)	sagte- en harde soldeerwerk.		FIFTH YEAR.
3.	Gebruik van die bandsaag.		Revision and independent work.
4.	Ligte draaiwerk.		ENGINEERING BLACKSMITH (9).
5. (a)	Kennis van die sterkte- en gebruik van verskillende soorte materiale.		FIRST YEAR.
(b)	Lees van tekenings.		
	19DE MAAND TOT VIERDE JAAR.		
6.	Gebruik en slyp van gereedskap.	1.	First aid and safety measures generally applicable to the trade.
7.	Draaibankwerk.	2.	Making and maintaining fires in open hearths.
8.	Vormgee.	3.	Sorting coal, coke and clinker.
9. (a)	Freeswerk; en	4.	Regulating furnaces.
(b)	grafeerwerk.	5.	Correct way of striking.
10.	Handsoldeer.	6.	Use of:—
11.	Rat- en wurmwiele maak.	(a)	sledge hammers;
12.	Versilwering.	(b)	swages; and
13.	Lakvernis en verfspuitwerk.	(c)	shaping irons.
14.	Vervaardiging en herstelwerk van en aan—	7.	Making simple blacksmith's tools and forgings.
(a)	elekttriese;	8.	Distinguishing between iron, steel and cast iron according to grain and cleavage or rupture.
(b)	optiese; en	9.	Knowledge of ferrous metals and their properties.
(c)	alle ander wetenskaplike instrumente.	10.	Reading of drawings.
15.	Reguit en ronde graadindeling.		SECOND TO FOURTH YEARS.
16.	Tekenings van sketse af maak.		
	VYFDE JAAR.		
	Hersiening en onafhanklike werk.	11.	Making of small forgings such as:—
		(a)	pipe brackets;
		(b)	U-bolts;
		(c)	dog spikes; and
		(d)	floor spikes.
	AMBAG: MESSELWERK (5).	12.	Instruction in correct temperatures for forging and forge welding, small forgings and forging in general.
		13.	Tempering on basis of colour observation.
	EERSTE 18 MAANDE.	14.	Oxy-acetylene cutting.
1.	Eerste hulp.	15.	Handling and forging with steam or power hammers.
2.	Veiligheidsmaatreëls soos van toepassing op die ambag.	16.	Bending:—
3.	Gebruik, instandhouding en bære van gereedskap.	(a)	steel pipes; and
4.	Hantering en eienskappe van materiaal, met inbegrip van kalk, sand, aggregate; stene en voglaag.	(b)	bars.
5.	Bereiding van dagha.	17.	Calculation of quantities of materials needed.
6.	Gebruik van verskillende verbande.	18.	All types of light and heavy work on anvil.
7.	Voegstrykwerk.	19.	Shrinking on tyres and similar work, with instruction regarding correct tolerances.
8.	Eenvoudige steierwerk.	20.	Making and tempering tools such as:—
9.	Lees van tekenings en tegniese terme.	(a)	stone-breaker's chisels;
	19DE MAAND TOT VIERDE JAAR.	(b)	chisels; and
10.	Van planne af werk.	(c)	axe heads.
11.	Dagha en beton vir verskillende doeleindes meng, soos vir—	21.	Forging high-speed tools and alloy steels and tem- pering where controlled temperatures are necessary.
(a)	voetlae;	22.	Annealing and normalising.
(b)	fondamente; en	23.	Drop-forging.
(c)	steenwerk.		

Simbole toegewys vir doeleindes van vakleerling se logboek.	Praktiese opleiding.	Symbols allocated for purposes of apprentice's log book.	Practical training.
12. (a) (b)	Inbou van— vensterkosyne; en deurkosyne.		FIFTH YEAR.
13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28.	Lê van betonvloere. Siersteenwerk. Pylers. Gewapende betonbouwerk. Deklae en drumpelsteëlwerk. Gewelfbouwerk. Vuurherde, oonde en rookgange. Metodes om siersteenwerk skoon te maak. Steenwerk; hoeveelheid en metings. Pleister van mure, plafonne en vloerlyste. Granolitiese vloere lê, afvlak en afwerk. Rofkaspleister- en grintstrooiwerk. Muurbeteëling. Onderstutting, afvlakking en granolitiese werk. Vooraafgegiete beton- en fineerklipblokke vassit. Lê van—		Revision and independent work.
(a) (b) (c) (d)	plaveie; platblokke; grootdiametertype; en waterriole.		FITTING AND TURNING (L).
29. 30.	Bou van mangate. Lappiesklipmure bou.		FIRST 18 MONTHS.
	VYFDE JAAR.	1. 2. (a) (b) (c) (d) (e) (f) (g) (h)	Safety precautions to be observed in workshop. Handling, correct use, care and use of tools and equipment, including:— filing; sawing, scraping and drilling; reaming; screwing; blade measurements, micrometers, dial meters and cylinder meters; reading of drawings and application thereof; and handling and care of all tools. Care and use of grindstones, drills and tipped tools with special emphasis on cutting angles and clearances. Elementary turning.
	Hersiening en onafhanklike werk.	3. 4. 5. 6. 7. 8. 9.	19TH MONTH TO FOURTH YEAR.
	AMBAG: MODELVERVAARDIGER (20).	(a) (b) (c)	Fitting of parts. Manufacturing of parts from drawings. Fitting of keys and keyways. Fitting of bearings and bushes. General training in:— assembly; repair; and maintenance of machinery and mechanical equipment.
	EERSTE 18 MAANDE.	10. (a) (b) (c) (d) (e)	Advanced turning on centre lathe, including:— internal; external screwing; setting up of work; determination of special procedures; and face plate work.
1. 2. 3. (a) (b)	Eerstehulp. Veiligheidsmaatreëls soos van toepassing op die ambag. Gereedskap— gebruik; en skerpmaak en in stand hou.	11. (a) (b)	Internal; and external turning.
4. 5. 6. 7. 8. 9. 10. 11.	Gebruik van verskillende soorte hout, laaghout en hardehout. Defekte in hout. Alle soorte lasse en gebruik daarvan. Lymwerk. Spykerwerk. Skroefwerk. Tappenne maak en insit. Vernis van—	12. (a) (b)	Turning of bushes; and linings for push, press and shrinking fits.
(a) (b)	modelle; en kernbakke.	13.	General pipework. Low- and high-pressure pipe systems.
12. 13. 14. (a) (b)	Modelle bære. Metaalmodelle afwerk. Gietlopers— sny; en maak.		FIFTH YEAR.
15. 16. 17. 18. 19.	Met skuurpapier skuur. Was- en leerhoeke insit. Tekening lees. Gebruik van houtwerkmasjiene (na eerste 6 maande) Algemene hout- en skrynwark.		Revision and independent work.
	19DE MAAND TOT VIERDE JAAR.		INDUSTRIAL ELECTRONICS MECHANICIAN (8).
20. (a) (b) (c) (d)	Spelings bereken vir— krimp; skeeffrek; masjinafwerving; en voorkoming van barste in gietstukke.	1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	FIRST 18 MONTHS.
21. 22. (a) (b) (c) (d) (e) (f) (g)	Werktekenings van monsters en bloudrukke af maak. Onderrig in gebruik van— afstrykers; plaatgietswerk; skeletwerk; modelmaak; kernbakke; kilgietsbakke; en tussenskotte insit.		Safety measures and first aid generally applicable to the trade. Use and care of tools and equipment. Drilling, marking off and assembling of component parts. Soldering wiring and printed circuits including semi-conductors. Use of simple testing equipment (multimeters, RF signalling generators etc.). Care and maintenance of AC and DC fractional HP motors. Lightning conductors as applicable. Reading of diagrams and interpreting of service instructions. Repair, adjustment and maintenance of controls, switches and relays. Power supply (regulated and unregulated).
23. 24. 25.	Opleiding in gietwerk (vir minstens 3 maande). Heelmaak en in stand hou van modelle en kernbakke. Beramings maak.	11. 12. (a) (b) 13. 14.	19TH MONTH TO FOURTH YEAR.
	VYFDE JAAR.		Protection of plant and equipment against overvoltage, voltage fluctuations, abnormal temperatures, dampness, mechanical stresses, especially in portable equipment.
	Hersiening en onafhanklike werk.		Tracing of faults in electronic apparatus such as oscilloscopes, oblique square and complex wave generators, bridges and electronic voltmeters; and the use of the above-named apparatus in circuit analyses and tracing of faults.
			Tracing of faults in electronic equipment and systematic methods should be stressed.
			Recording signalled data by means of magnetic tape.

Simbole toegewys vir doeleindes van vakleerling se logboek.	Praktiese opleiding.	Symbols allocated for purposes of apprentice's log book.	Practical training.
	AMBAG: MOTORELEKTRISIËN (2).		
	EERSTE 18 MAANDE.		
1.	Hantering, regte gebruik en versorging van gereedskap en uitrusting.	15. (a)	Use and testing of tubes and semi-conducting apparatus; and
2.	Veiligheidsmaatreëls wat in werkwinkel nagekom moet word en beveiliging van stoffeer- en verfwerk.	(b)	development of printed circuits and methods of manufacture.
3.	Meng van elektroliet.	16. (a)	AC and DC amplifiers; and
4.	Insit van batterye, battery- en aansitterkabels.	(b)	measuring physical properties e.g. time, distortion, thickness, pressure, number, etc.
5.	Soldeer van kabelaanluiters, -ore en -lasse.	17.	Elementary use and operating of:—
6.	Verwydering en terugsit van elektriese onderdele.	(a)	Double-coded systems;
7.	In stand hou van batterye—	(b)	Closed circuit television;
(a)	diens gee, laai, toets, verseël;	(c)	Computers;
(b)	diagnose en inwendige ondersoek; en	(d)	Radiation switches;
(c)	vinnige laaiers; uitwerking van temperatuur.	(e)	Geiger-Muller tubes;
8.	Gebruik van en voorsorg i.v.m. elektriese meetinstrumente.	(f)	sources of radiation; and
9.	Opknop en toets van aansitmotors en -aandrywings.	(g)	magnetic amplifiers.
10.	Vonkproppe: diens gee en toets.	18.	Use of magnetic, capacitive and inductive approximation apparatus.
11.	Gebruik van wringsleutel.	19.	Impulse oscillators and oscillator circuits.
		20.	Elementary work on and knowledge of:
	19DE MAAND TOT VIERDE JAAR.	(a)	relay and switching circuits;
12.	Diens gee aan, toets, en tydreëling van magneto's.	(b)	photo-electrical apparatus;
13.	Opknop, toets en polariseer van generators.	(c)	electromagnetic apparatus;
14.	Versorging en bediening van uitrusting wat in diagnose en toets van motor-elektriese onderdele gebruik word.	(d)	solid state switching devices including monostable and bistable apparatus;
15.	Battery- en spoelontstekingstelsels; toets van spoel- en kondensator- en ballasweerstand.	(e)	switches;
16.	Verdeler—	(f)	thyatron control of motors;
(a)	as, busse en nok vir slytasie nagaan; en	(g)	flip-flop counter circuits;
(b)	installering van busse; diens gee aan en in lyn bring van kontakpunte; nagaan van rus en punte	(h)	synchronous and servo-systems;
	synchroniseer.	(i)	RF heating equipment;
17.	Ontstekingstyd stel en vir enjintoestand en hoogte verstel.	(j)	direct reading counters and meters; and
18.	Gebruik van—	(k)	simple memory devices.
(a)	tydreëlligte;		
(b)	tagometer; en		FIFTH YEAR.
(c)	vakuummeter.		Revision and independent work.
19.	Herbedrading van motorvoertuig en lees van bedradingdiagramme.		MARINE FITTER (25).
20.	Foute soek; nagaan vir oop kringe, kortsluitings, aarding, weerstand en spanningsval.	1.	Safety measures and first aid generally applicable to the trade.
21.	Toets, diens gee, herstel- en verstelwerk aan—	2.	Use and care of hand tools and bench work including splintering, filing, sawing, scraping, drilling, reaming and threading including marking off.
(a)	uitskakelaars;	3.	Reading and application of plans.
(b)	reëlaars;	4.	Use and care of measuring instruments.
(c)	sentrifugale reëlaars;	5.	Grinding of bits and tipped chisels including cutting angles and clearances.
(d)	solenoiëdskakelaars;	6.	Simple turning.
(e)	vakuumkontroles;	7.	Simple component part making and fitting keys and keyways.
(f)	paneelinstrumente;		
(g)	kringe, skakelaars, lampe en toeters;		19TH MONTH TO FOURTH YEAR.
(h)	verhitterwaaiers;	8.	Preparing bearings after remounting.
(i)	relës;	9.	Servicing boiler mountings, valves and piping.
(j)	reostate;	10.	Advanced turning including—
(k)	rigtingwysers;	(a)	internal and external threading; and
(l)	ruitveermotors;	(b)	conical turning.
(m)	elektriese brandstofpompe;	11.	Practical work with workshop machinery generally used in fitting.
(n)	elektriese transmissiekontroles; en	12.	Instruction in repair and maintenance of main and auxiliary motors (turbine and reciprocal).
(o)	alternators en reëlaars.	13.	Lubricating systems and maintenance of equipment and filtering systems.
22.	Instel van koplampe.	14.	Methods of determining top and bottom dead centre on piston motors and determining of piston tolerances.
23.	Instelling.	15.	Adjustment of all types of valves especially steam inlet and outlet valves.
24.	Klepspeling gee.	16.	Dismantling and servicing steam and water packing glands.
25.	Nagaan van koelstelsels.	17.	Servicing of steering and telemotor systems.
26.	Waar geriewe bestaan—onderhoud en toets van koudaansittoestelle.	18.	Fitting of fire fighting and hull pumps and fresh water pumps and flooding equipment.
27.	Diagnoseer van foute.	19.	Servicing insulating valves in air conditioning systems.
	VYFDE JAAR.	20.	Servicing remote control equipment in connection with valves, driving shafts and side gear systems.
	Hersiening.	21.	Servicing underwater valves and equipment.
	AMBAG: MOTORMASJIE EN PASWERK (3).	22. (a)	Removing and replacing sonar hull systems;
	EERSTE 18 MAANDE.	(b)	servicing stabilisers;
1.	Hantering, regte gebruik en versorging van gereedskap, uitrusting en motorenjinoonderdele.	(c)	servicing hydraulic systems; and
2.	Veiligheidsmaatreëls wat in die werkwinkel nagekom moet word.	(d)	servicing rudder and steering gear.
3.	Enjins uitmekaarhaal.	23.	Complete servicing of winches and capstans.
4.	Eenvoudige werk met eendoelmasjiene.	24.	Complete repair of all internal combustion engines used (diesel, 2- and 4-stroke).
5.	Hermetalliseer van laers en suierstange.	25.	Assembling and servicing gear boxes.
	19DE MAAND TOT EINDE VAN VIERDE JAAR.	26.	Servicing turbine cooling fans.
6.	Eenvoudige draaibankwerk.	27.	Knowledge of rusting of metals and rust preventive measures.
7.	Herboring van silinders en insit van hulse.		

Simbole toegewys vir doeleindes van vakleerling se logboek.	Praktiese opleiding.	Symbols allocated for purposes of apprentice's log book	Practical training.
	19DE MAAND TOT VIERDE JAAR.		
7.	Leer om alle soorte pleisterwerk—	(c)	coring; and
(a)	wat vir mure en plafonne nodig is aan te sit, met	(d)	closing and casting thereof.
(b)	inbegrip van kroonlyste en spatlyste, en dit goed	11.	Mixing of moulding sands.
	af te werk.	12.	Care of patterns.
8.	Beton-, granolitiese of komposisievloere gelykmaak	13.	Experience on melting units.
	en afwerk.	14.	Training on moulding machines (for a period not
9.	Spesiale kompopleister, akoestiek en mosafek.		exceeding four months).
10.	Gevorderde pleisterwerk.	15.	Advanced core making and moulding including—
11.	Materiaal vir die beste resultate meng.	(a)	skeleton;
12.	Profiel-, gietvorms en gietvorms maak vir en die giet	(b)	strickle; and
	van kunsklipwerk.	(c)	loam moulding.
13.	Draagbare slyp- en ander masjiene bedien.	16.	Making of cast iron core irons.
14.	Planne, spesifikasies en hoeveelhede vir pleisterwerk.	17.	Independent moulding on general jobbing floor.
		18.	Oxy-acetylene cutting applicable to the trade.
		19.	In foundries with more than one department i.e. —
		(a)	iron;
		(b)	steel; and
		(c)	brass.
			(Apprentices must spend six months in one or more
			of the other departments during third year of
			apprenticeship).
	VYFDE JAAR.		
	Hersiening en onafhanklike werk.		
	AMBAG: PYPPASSER (21).		
	EERSTE 18 MAANDE.		
1.	Veiligheidsmaatreëls en eerstehulp normaalweg op die		
	ambag van toepassing.		
2.	Gebruik en versorging van handgereedskap en		
	masjiene op die ambag van toepassing.		
3.	Uitken en uitsoek van regte materiaal en herstel van		
	pype vir verskillende dienste in skepe en skeepswerf.		
4.	Uitken en gebruik van materiaal, plaatmetaal en		
	legering wat gebruik word by die vervaardiging van		
	artikel op die ambag van toepassing.		
5.	Sorg by die hantering van gesmelte materiaal soos		
	lood, witmetaal en hars en wittmetaling van laers.		
6.	Sorg by die hantering van oksiasetileenuitrustung.		
7.	Uitken en gebruik van sagte soldeersels en smelt-		
	middels vir soldeer en yertin van metale.		
8.	Huishoudelike pype meet en sny en gebruik van pyp-		
	toebehore en verbindings.		
9.	Gebruik van verskillende soorte kraanwassers en		
	pakkingsmateriaal vir warm- en kouwaterstelsels.		
10.	Tegniese terme wat in die ambag gebruik word.		
	19DE MAAND TOT VIERDE JAAR.		
11.	Vervaardiging van staal-metaalplate vir lê van pyp-		
	lyne in skepe.		
12.	Uitsoek van regte vulmiddel vir gebruik by buig van		
	verskillende materiale.		
13.	Buig van koper-, kopernikkelgegalvaniseerde en swart-		
	metaalpype deur die toepassing van die volgende		
	metodes:—		
(a)	Masjiene—Mandrel en ander.		
(b)	Masjiene—Hidrouliese buigpers met straalvor-		
	mers vir pype met groot deursnee.		
(c)	Warm- en koue buiging.		
(d)	Buig op blok.		
14.	Doel van installering van die verskillende afsluitkrane,		
	kleppe, toebehore, en uitsitvermoë.		
15.	Installering van skeepsurinaalstelle, wasbakke, bad-		
	dens, vuilwatertregters, vuilwaterventilasie- en sluk-		
	pype, spoelkleppe wat die plek neem van skeeps-		
	spoelbakke, storthokkiemuurmeublement en warm-		
	en kouwatermengkleppe.		
16.	Gebruik van oksiasetileentoerusting vir hardsoldeer,		
	silwersoldeer, sweis, loodlaswerk en hertin.		
17.	Gebruik van argon-boogswaaising vir aluminium en		
	vlekvrystaal en elektriese sweistoerusting.		
18.	Elektriese- en oliewarmwaterstelsels installeer.		
19.	Vervaardiging, herstel en installering van pype vir		
	die volgende stelsels:—		
(a)	Stoom—hoë- en laedruk.		
(b)	Verkoelend—hoë- en laedruk.		
(c)	Hidroulies—hoëdruk.		
(d)	Saamgeperste lug—hoë- en laedruk.		
(e)	Soutwater—brandhoofpype en masjienvrystel-		
	lingsdienste.		
(f)	Varswater—huishoudelik en masjienvrystel-		
	lingsdienste.		
(g)	Smeerolie—hoof- en hulpmasjiene van skepe.		
(h)	Sanitasie op skepe—vuil en spoel.		
(i)	Kim—suig en afvoer.		
(j)	Dieselmasjiene—uitlaatpype en waterverkoelde		
	omhulde uitlaatpype.		
20.	Vervaardiging van verskillende hoekige takpype van		
	koper, kopernikkel, yster en staal. Koppeling van		
	een pyp aan 'n ander en afwerking deur sweis-		
	soldeer, sliwersoldeer en elektriese sweising.		
21.	Planne en spesifikasies lees.		
	VYFDE JAAR.		
	Hersiening en onafhanklike werk.		

Simbole toegewys vir doeleindes van vakleerling se logboek.	Praktiese opleiding.	Symbols allocated for purposes of apprentice's log book.	Practical training.
	AMBAG: RADIOTRISIËN (25).		
	EERSTE 18 MAANDE.		
1.	Veiligheidsmaatreëls en eerstehulp normaalweg van toepassing op die ambag.	6.	All types of joints and their uses.
2.	Name en gebruike van handgereedskap.	7.	Glueing.
3.	Versorging en instandhouding van werkwinkeltoerusting.	8.	Nailing.
4.	Bymekaargroepeer van onderdele.	9.	Screwing.
5.	Beginnsele van afwerkwerk.	10.	Dowelling.
6.	Boor- en soldeerwerk.	11.	Varnishing of—
7.	Gebruik van eenvoudige volt—OHM Meters.	(a)	patterns; and
8.	Oprigting en instandhouding van lugrade en weerligafleiers.	(b)	coreboxes.
9.	Lees van stroomkringdiagramme en interpretasie van diensinstruksies.	12.	Storing patterns.
10.	Herstel en instandhouding van wyserplaat dryftoerusting.	13.	Dressing metal patterns.
11.	Kennis van stroomkringbane gebruik by frekwensie beheer.	14.	Runner sticks:—
12.	Lees van planne en spesifikasies.	(a)	Cutting of; and
	19DE MAAND TOT VIERDE JAAR.	(b)	making of.
13.	Opspoor van foute.	15.	Sandpapering.
14.	Praktiese toepassing van wisselstroom- en gelykstroomteorie.	16.	Applying wax and leather fillets.
15.	Gebruik en instandhouding van verhoeringsboë (impedance bridges), buistoetsapparaat, elektroniese voltmeters, ossilloskoop en instrumente vir die herstel van radio-ontvangstelle.	17.	Reading drawings.
16.	Herstel en instandhouding van motors in ontvangstelle en seinstelle.	18.	Use of woodworking machines (after first six months).
17.	Herstel en instandhouding van audioklankversterkers.	19.	General woodworking and joinery.
18.	Lynrigting van ontvangs en oorsendstelle en die gebruik van ossilloskoop by die lynrigting van stroomkringdiagramme.		19TH MONTH TO FOURTH YEAR.
19.	Kennis van toerusting gebruik in en by ontvangstelle, outomatiese frekwensie beheertoerusting en steuringsdempers.	20.	Calculating allowances for—
20.	Algehele versiening van ontvangs en oorsendstelle en instandhouding daarvan.	(a)	contraction;
21.	Kennis en werk volgens planne en diagramme.	(b)	warping;
22.	Kennis van installering en instandhouding van frekwensieversterkers.	(c)	machining; and
	VYFDE JAAR.	(d)	prevention of cracking in casting.
	Hersiening en onafhanklike werk.	21.	Making working drawings from samples and blue-prints.
	AMBAG: RADIOWERKTUIGKUNDIGE (KOMMUNIKASIE) (24).	22.	Instruction in the use of—
	EERSTE 18 MAANDE.	(a)	strickles;
1.	Veiligheidsmaatreëls en eerstehulp normaalweg op die ambag van toepassing.	(b)	platemoulding;
2.	Radio-installasies, instandhouding van radioskermleidings, skakelaars en relais.	(c)	skeleton work;
3.	Gebruik van eenvoudige toetsuitrusting en die gebruik van sekondêre selle.	(d)	pattern construction;
4.	Benaming van elektriese- en radio-onderdele, gebruik en ligging in die toerusting en installasies.	(e)	coreboxes;
5.	Instandhouding van eenvoudige ontvangtoestelle en senders sowel as mikrofone, koptelefone, wipklemme en proppe.	(f)	chills; and
6. (a)	Lees en vertolking van radiokringtekeninge.	(g)	boxing-up.
6. (b)	Gebruik en begrip van handboeke oor kommunikasietoerusting.	23.	Training in moulding (for at least three months).
7.	Pas van verbindingsklemme aan lugdraadtoevoerkabels en veeljarige buigsame kabels.	24.	Repair and maintenance of patterns and coreboxes.
	19DE MAAND TOT VIERDE JAAR.	25.	Estimating.
8. (a)	Nagaan en toets van kragvoorsieningstoerusting:—		FIFTH YEAR.
8. (b)	Radio-generatoreenhede; en afstandbeheereenhede.		Revision and independent work.
9.	Nagaan en toets van bedrading, verbinding, ens. in M.F., H.F. en B.H.F. toerusting.		PIPE FITTER (21).
10.	Gebruik van toetsuitrusting:—		FIRST 18 MONTHS.
(a)	seingenerators.	1.	Safety measures and first aid normally applicable to the trade.
(b)	Leweringmeters.	2.	Use and care of hand tools and machines applicable to the trade.
(c)	Universeelmeters.	3.	Identifying and choosing of correct materials for the repair of pipes for the different services in ships and shipyard.
(d)	Ossilloskope.	4.	Identifying and use of materials, sheet metal and alloys used in the manufacture of articles applicable to the trade.
(e)	Meetbrûe.	5.	Precautions in handling melted materials such as lead, white metal and resin and white-metalling bearings.
(f)	en ander dergelike toerusting.	6.	Precautions in handling oxy-acetylene equipment.
11.	Uitvoer van diensbaarheidtoets en nagaan van alle M.F. en H.F. toerusting wat vir radiokommunikasie gebruik word.	7.	Identifying and use of soft solders and fluxes for soldering and tinning of metals.
		8.	Measuring and cutting pipes for domestic use and use of pipe fittings and connections.
		9.	Uses of different types of tap washers and packing material for hot and cold water systems.
		10.	Technical terms used in the trade.
			19TH MONTH TO FOURTH YEAR.
		11.	Fabricating steel metal plating for pipe laying in ships.
		12.	Selecting of right type of filling for use in bending various materials.
		13.	Bending of copper, copper nickel (cupronickel) galvanised and black metal pipes by application of the following methods:—
		(a)	machine, mandrel and other methods;
		(b)	machine, hydraulic bending press with radial shapers for large cross-section pipes;
		(c)	hot and cold bending; and
		(d)	bending on block.
		14.	Purpose of fitting various types of stop cocks, valves, fittings and expanding capacity.
		15.	Installation of ship's urinal sets, wash basins, baths, slop hoppers, ventilation of waste and sludge pipes, flushing valves installed in the place of ship's flushing cisterns, shower cubicle wall fittings and hot and cold water mixing valves.

Simbole toegewys vir doeleindes van vakleerling se logboek.	Praktiese opleiding.	Symbols allocated for purposes of apprentice's log book.	Practical training.
12.	Toets en opknap van alle H.F. en B.H.F. ontvangstelle en uitsenders en stelselmatige toetsmetodes moet beklemtoon word.	16.	Use of oxy-acetylene equipment for hard soldering, silver soldering, welding, lead jointing and retinning.
13.	Gebruik en begrip van handboeke en toetsspesifikasie-data.	17.	Use of argon arc welding for aluminium and stainless steel and electrical welding equipment.
14.	Toets en opknapping van alle verwante toerusting, insluitende antennes, U.H.F. toerusting (waar van toepassing).	18.	Installation of electrical and oil heating water systems.
15.	Elementêre werk op toevoerstelsels (lyn, ko-aksiaal en golfgeleier).	19.	Fabricating, repair and fitting of pipes for the following systems:—
16.	Onderrig met betrekking tot die uithaal, opknapping, toets herinstallering en toetsbediening van alle radio-onderdele.	(a)	Steam—high and low pressure;
17.	Nagaan van toets- en metingtoerusting in algemene gebruik en akkuraatheidspere (akkuraatheid van frekwensiemeting en instelling moet beklemtoon word).	(b)	refrigeration—high and low pressure;
18.	Basiese radarwerk (vermoë om van handleiding gebruik te maak om eenvoudige basiese toetse uit te voer).	(c)	hydraulic—high pressure;
		(d)	compressed air—high and low pressure;
		(e)	salt water—fire fighting mains and refrigeration systems;
		(f)	fresh water—domestic and engine cooling systems;
		(g)	lubricating oils—ship's propelling and auxiliary machinery;
		(h)	ship's sanitary systems—soil and flushing;
		(i)	bilge—suction and discharge; and
		(j)	diesel engines—exhaust pipes and water cooled cases exhausts.
		20.	Fabricating of various angle branch pipes of copper, copper nickel, iron and steel. Coupling of pipes and finishing by means of brazing, silver soldering and electrical welding.
	VYFDE JAAR.		FIFTH YEAR.
	Hersiening en onafhanklike werk.		Revision and independent work.
	AMBAG: SEILMAKER (28).		PLASTERING (20).
	EERSTE 18 MAANDE.		FIRST 18 MONTHS.
1.	Veiligheidsmaatreëls en eerstehulp normaalweg op die ambag van toepassing.	1.	Safety precautions and first aid applicable to the trade.
2.	Handnaaiwerk.	2.	Use and care of tools.
3.	Die gebruik van tou en palmstukke vir—	3.	Handling and properties of materials such as cement, lime and sand.
(a)	omsoomwerk;	4.	Preparation of mortars.
(b)	lasse;	5.	Simple scaffolding.
(c)	soorte nate;	6.	Reading of drawings and technical terms.
(d)	takelgaring; en		
(e)	die algemene gebruik van tou, knope, gate en kouse.		
4.	Klein seiloortreksels en matte sny en ontwerp.		
	19DE MAAND TOT VIERDE JAAR.		19TH MONTH TO FOURTH YEAR.
5.	Swaar naaimasjiene gebruik.	7.	Learning to apply and to finish to a good surface, all plastering required for—
6.	Skeepstente, ens., maak en afwerk, splits en seis.	(a)	walls and ceilings, including;
7.	Seiloortreksels en tente vir skepe meet en ontwerp.	(b)	cornices and skirtings.
8.	Bootselle en skeepstente, geweerootreksels, windas-oortreksels, vlotskerms, ens.—	8.	Screeding and finishing of floors of concrete, granolithic or composition.
(a)	afmeet;	9.	Special compo plasters, acoustic and mosaic.
(b)	teken; en	10.	Advanced plaster work.
(c)	uitsprei.	11.	Profiles; forming of moulds for and casings of artificial stone work.
9.	Kennis opdoen i.v.m. seinvlae en beskermde kleding.	12.	Operating portable grinders and other machines.
	VYFDE JAAR.	13.	Plans, specifications and quantities for plaster work.
	Hersiening en onafhanklike werk.		FIFTH YEAR.
	AMBAG: SKEEPSPASSER (16).		Revision and independent work.
	EERSTE 18 MAANDE.		PLUMBING (13).
1.	Veiligheidsmaatreëls en eerstehulp wat normaalweg op die ambag van toepassing is.		FIRST 18 MONTHS.
2.	Gebruik en versorging van handgereedskap en bankwerk met inbegrip van splinterwerk, vylwerk, saagwerk, skraapwerk, boorwerk, ruimwerk en skroefdraadsny asook afmerkwark.	1.	First aid.
3.	Planne lees en toepassing daarvan.	2.	Safety precautions applicable to the trade.
4.	Gebruik en versorging van meetinstrumente.	3.	Care and use of tools.
5.	Slyp van bore en gepunte beitels met inbegrip van snyhoeke en vryruimtes.	4.	Materials and machines.
6.	Eenvoudige draaiwerk.	5.	Sheetmetal work—elementary.
7.	Eenvoudige onderdele vervaardig en spy- en sleutelspaswerk.	6.	Uses of—
	19DE MAAND TOT VIERDE JAAR.	(a)	pipe fittings; and
8.	Voorbereiding van laers na hermetaalproses.	(b)	various kinds of washers and packings.
9.	Versiening van ketelmonterings, kleppe en bepyping.	7.	Cutting simple patterns.
10.	Gevorderde draaiwerk met inbegrip van—	8.	Cutting and threading of pipes.
(a)	binne en buite skroefdraad; en	9.	Making of—
(b)	koniese draaiwerk.	(a)	gutters; and
11.	Praktiese werk op werkwinkelmasjinerie normaalweg in gebruik vir paswerk.	(b)	down pipes.
12.	Opleiding in die herstel en instandhouding van die Hoof en Bystandsmotore (Turbine en bewegende (reciprocal) motore).	10.	Working from plans.
13.	Smeeroliestelsels en toerusting en filtreerstelsels in stand hou.	11.	Soldering.
14.	Metodes om presiese bo- en onderdraaipunte op suier motore te bepaal en bepaling van suier-rekruimtes.	12.	Tinning.
		13.	Riveting.
		14.	Use of fluxes.
		15.	Technical terms.

Simbole toegewys vir doeleindes van vakleerling se logboek.	Praktiese opleiding.	Symbols allocated for purposes of apprentice's log book.	Practical training.
			19TH MONTH TO FOURTH YEAR.
15.	Verstelling van alle tipes kleppe met aandag aan binne- of uitlaat van stoom.		
16.	Uitmekaarhaal en versiening van stoom en water pakkingbuste (glands).	16.	Pipes:—
17.	Versiening van stuurmotore en telemotorstelsels.	(a)	Cutting;
18.	Paswerk aan vuur- en romppompe en varswaterpompe en oorstromingstoerusting.	(b)	threading;
19.	Isoleerkleppe in lugversiersstelsel versien.	(c)	jointing; and
20.	Afstandbeheertoerusting versien t.o.v. kleppe, aan- drywingsaste en sytandratstelsels.	(d)	laying.
21.	Onderwaterkleppe en toerusting versien.	17.	Fitting and fixing—
22.	(a) Afhaal en terugpas van sonarrompstelsels;	(a)	stop cocks;
(b)	Kanteldempers en stabiliseerders versien;	(b)	valves;
(c)	hidrouliese stelsels versien;	(c)	expansion joints;
(d)	roer- en stuurtoerusting versien;	(d)	copper piping;
23.	Algehele versiening van windaste en kaapstanders.	(e)	waste and outlet pipes;
24.	Algehele herstelwerk aan alle binnebrandmotore in gebruik (diesel, 2- en 4-slag).	(f)	traps;
25.	Ratkaste pas en versien.	(g)	vent pipes;
26.	Turbine verkoelerblasers versien.	(h)	guttering;
27.	Kennis opdoen van roes van metale en teenmaatreëls.	(i)	down pipes; and
28.	Versiening van brandstofspuitstelsels.	(j)	flashings.
	VYFDE JAAR.	18.	Installation of hot water systems.
	Hersiening en onafhanklike werk.	19.	Setting out drainage systems.
	SKEEPSTIMMERMAN (30).	20.	Laying and jointing various drain pipes.
	EERSTE 18 MAANDE.	21.	Installation of—
1.	Gebruik en versorging van alle houtbewerkings- handgereedskap, beide hout- en staalwerk.	(a)	Closet and urinal suites;
2.	Kennis en gebruik van houtsoorte by gebruik in boot- bouwerk.	(b)	cisterns and traps; and
3.	Afhaal, gereedmaak vir herstel en vasmaak van kiel- planke, kalfplanke, teenwerkplanke -en houtwerk.	(c)	cast iron pipe work (general),
4.	Opleiding in afmerk en vormgee van maste, sperboom, spanribbe en takelblokke.	22.	Reading of plans and specifications.
5.	Eenvoudige sjabloonwerk.	23.	Practical application of municipal regulations, where; applicable.
	19DE MAAND TOT VIERDE JAAR.	24.	Advanced sheetmetal work.
6.	(a) Opleiding t.o.v. verskillende persvorms en sagte staal- plate by skeepsbou in gebruik.	25.	Meters:—
(b)	Besondere aandag aan die klinknaelstelsel en die gebruik daarvan op skeepsbou van toepassing.	(a)	Fitting; and
7.	Maak van stukke van eenvoudige tekenings af.	(b)	reading.
8.	Opleiding en onderrig in die ontwikkeling, afmerk en maak van algemene vorms van staalwerk met in- begrip van ventilasieginge, buigwerk in ronde, vierkantige en koniese pype.	26.	Use of oxy-acetylene equipment.
9.	Voorbereiding van werk volgens tekenings.	27.	Brazing.
10.	Algemene sweiswerk soos op die ambag van toe- passing.	28.	Welding.
11.	Praktiese onderrig aan boord t.o.v. bou en verande- rings van vertrekke met spesiale aandag aan water- digting.	29.	Jointing and laying of lead piping.
12.	Maak van hout-, aluminium- en staalkaste (lockers).	30.	Bossing up of sheet lead.
13.	Maak en installering van staaliteme in vertrekke.	31.	Septic tanks:—
14.	Toets van water- en oliedigte vertrekke aan boord.	(a)	Installation; and
15.	Gebruik van handkalfatergereedskap.	(b)	maintenance.
16.	Drie maande onderrig in tekenkantoor.	32.	Building of manholes.
	VYFDE JAAR.	33.	Lead burning.
	Hersiening en onafhanklike werk.		FIFTH YEAR.
	AMBAG: SKILDER (19).		Revision and independent work.
	EERSTE 18 MAANDE.		RADIOMECHANIC (COMMUNICATION) (23).
1.	Eerste hulp.		FIRST 18 MONTHS.
2.	Veiligheidsmaatreëls soos van toepassing op die ambag.	1.	Safety measures and first aid generally applicable to the trade.
3.	Versorging en gebruik van materiaal en gereedskap.	2.	Radio installation, maintenance of radio grid conduc- tors, switches and relays.
4.	Bereiding van oppervalkte, en roeswering.	3.	Use of simple testing equipment and use of secondary batteries.
5.	Onderlae aansit.	4.	Naming of electrical and radio component parts, use and position in the equipment and installation.
6.	Gebruik van kleurmiddels, verdunners en droërs.	5.	Maintenance of simple receivers and transmitters as well as microphones, headpieces, monostable trigger terminals and plugs.
7.	Metodes om die volgende aan te sit:—	6.	(a) Reading and interpreting of radio circuit drawings; (b) use and understanding of manuals on communication equipment.
(a)	Verf (roeswerende verf);	7.	Fitting connecting lugs to aerial supply cable and multicore flexible cables.
(b)	witkalk; en		19TH MONTH TO FOURTH YEAR.
(c)	distemper.	8.	Checking and testing of power supply equipment:—
8.	Op verf afhaal.	(a)	Radio generating units; and
9.	Eenvoudige steierwerk.	(b)	remote control units.
10.	Elementêre meng en versnyding van verf.	9.	Checking of wiring, connections, etc., in MF, HF and VHF equipment.
11.	Sindelikheid.	10.	Use of testing equipment:—
12.	Tegniese Terme.	(a)	Signal generators;
13.	Gebruik en versorging van verfspuituitrusting.	(b)	supply meters;
14.	Ruite insit.	(c)	universal meters;
		(d)	oscilloscopes;
		(e)	measuring bridges; and
		(f)	other similar equipment.
		11.	Conducting serviceability tests and checking of all MF and HF equipment used for radio communication.
		12.	Testing and overhauling all HF and VHF receivers and transmitters, and systematic testing should be stressed.
		13.	Use and understanding of manuals and testing of specification data.

Simbole toegewys vir doeleindes van vakleerling se logboek.	Praktiese opleiding.	Symbols allocated for purposes of apprentice's log book.	Practical training.
	19DE MAAND TOT VIERDE JAAR.		
15.	Meng, bereiding en aansit van verf.	14.	Testing and overhauling all related equipment, including aeriels, UHF equipment (where applicable).
16.	Verskillende metodes om vlekke uit te haal.	15.	Elementary work on supply systems (line, coaxial and wave conductors).
17.	Beits.	16.	Instruction in connection with removing, overhaul, testing, replacing and testing of all radio component parts.
18.	Strepe verf.	17.	Checking of testing and measuring equipment in general use and accuracy limits (accuracy of frequency measurement and alignment should be stressed).
19.	Metaalvlakke—bereiding daarvan en verf.	18.	Basic radar (ability to use manuals in order to carry out basic tests).
20.	Vernis.		
21.	Gevorderde kleurmenging.		FIFTH YEAR.
22.	Siervervwerk.		Revision and independent work.
23.	Plastiese vervwerk.		
24.	Kennis van werkhoeveelhede en werkafmetings.		
25.	Matmaak, houtgreiner.		
26.	Muurplakwerk.		
27.	Elementêre letterskilderwerk—waar fasiliteite bestaan.		
28.	Stensilwerk.		
29.	Brûe verf.		
30.	Gebruik van—		
(a)	lang lere;		
(b)	trapplanke;		
(c)	hangstoele; en		
(d)	hangsteiers.		
	VYFDE JAAR.		
	Hersiening en onafhanklike werk.		
	AMBAG: SWEISWERK (33).		
	EERSTE 18 MAANDE.		
1.	Eerste hulp en veiligheidsmaatreëls soos van toepassing op die ambag.	1.	Safety measures and first aid generally applicable to the trade.
2.	Winkelroetine.	2.	Names and care of hand tools.
3.	Gebruik en vorsorging van handgasvlamsnyer.	3.	Care and maintenance of workshop equipment.
4.	Algemene snywerk met oksiasetileen.	4.	Grouping together of component parts.
5.	Eenvoudige sweiswerk op sagte staal.	5.	Principles of finishing off.
6.	Algemene sweiswerk van eenvoudige gefabriseerde werk op sagte staal.	6.	Drilling and soldering.
7.	Sweis—	7.	Use of simple volt-ohm-meters.
(a)	plat;	8.	Erection and maintenance of aeriels and lightning conductors.
(b)	hoek;	9.	Reading of circuit diagrams and interpreting service instructions.
(c)	stuijk; en	10.	Repair and maintenance of dial drive mechanisms.
(d)	oorslag.	11.	Knowledge of circuits used in frequency control.
8.	Algemene werk op profielsnymasjiene.	12.	Reading of plans and specifications.
9.	Lees van tekenings.		
	19DE MAAND TOT VIERDE JAAR.		
10.	Sweis—		19TH MONTH TO FOURTH YEAR.
(a)	vertikaal; en	13.	Tracing of faults.
(b)	oorhoofs.	14.	Practical application of AC and DC theory.
11.	Elektriese boogswaie.	15.	Use and maintenance of impedance bridges, tube testing apparatus, electronic voltmeters, oscilloscopes and instruments for repair of radio receivers.
12.	Sweissoldeer van verskillende metale.	16.	Repair and maintenance of motors in receivers and signalling apparatus.
13.	Swaar profiele sny.	17.	Repair and maintenance of audio sound amplifiers.
14.	Uitgloeing.	18.	Alignment of receiving and transmitting sets and use of oscilloscope in alignment of circuit diagrams.
15.	Materiaal uitsit om vervorming te voorkom.	19.	Knowledge of equipment used in and in connection with receiving sets, automatic frequency control equipment and interference suppressors.
16.	Sweis van gefabriseerde pyptoebehore.	20.	Complete servicing of receiving and transmitting sets and maintenance of same.
17.	Elektriese sweisweie van—	21.	Knowledge and work according to plans and diagrams.
(a)	sagte staal;	22.	Knowledge of installation and maintenance of frequency amplifiers.
(b)	gietyster;		
(c)	gietstaal;		FIFTH YEAR.
(d)	aluminium en sy allooie;		Revision and independent work.
(e)	koper en koperallooie; en		
(f)	vlekvrye staal.		
18.	Oksiasetileensweisweie van—		
(a)	sagte staal;		
(b)	gietyster;		
(c)	gietstaal;		
(d)	aluminium en sy allooie; en		
(e)	koper en koperallooie.		
19.	Sweis van laagdrukhouers.		
20.	Gevorderde werk met spesiale verwysing na beheer van voorverhittingstemperatuur.		
21.	Ontspanning.		
	VYFDE JAAR.		
	Hersiening en onafhanklike werk.		
	AMBAG: TAKELWERK (27).		
	EERSTE 18 MAANDE.		
1.	Eerste hulp.		
2.	Veiligheidsmaatreëls soos van toepassing op die ambag.		
3.	Vorsorging en gebruik van—		
(a)	gereedskap;		
(b)	oksiasetileenvlamsnyer;		
(c)	katrolblokke;		

14. Testing and overhauling all related equipment, including aeriels, UHF equipment (where applicable).
15. Elementary work on supply systems (line, coaxial and wave conductors).
16. Instruction in connection with removing, overhaul, testing, replacing and testing of all radio component parts.
17. Checking of testing and measuring equipment in general use and accuracy limits (accuracy of frequency measurement and alignment should be stressed).
18. Basic radar (ability to use manuals in order to carry out basic tests).

FIFTH YEAR.

Revision and independent work.

RADIOTRICIAN (22).

FIRST 18 MONTHS.

1. Safety measures and first aid generally applicable to the trade.
2. Names and care of hand tools.
3. Care and maintenance of workshop equipment.
4. Grouping together of component parts.
5. Principles of finishing off.
6. Drilling and soldering.
7. Use of simple volt-ohm-meters.
8. Erection and maintenance of aeriels and lightning conductors.
9. Reading of circuit diagrams and interpreting service instructions.
10. Repair and maintenance of dial drive mechanisms.
11. Knowledge of circuits used in frequency control.
12. Reading of plans and specifications.

19TH MONTH TO FOURTH YEAR.

13. Tracing of faults.
14. Practical application of AC and DC theory.
15. Use and maintenance of impedance bridges, tube testing apparatus, electronic voltmeters, oscilloscopes and instruments for repair of radio receivers.
16. Repair and maintenance of motors in receivers and signalling apparatus.
17. Repair and maintenance of audio sound amplifiers.
18. Alignment of receiving and transmitting sets and use of oscilloscope in alignment of circuit diagrams.
19. Knowledge of equipment used in and in connection with receiving sets, automatic frequency control equipment and interference suppressors.
20. Complete servicing of receiving and transmitting sets and maintenance of same.
21. Knowledge and work according to plans and diagrams.
22. Knowledge of installation and maintenance of frequency amplifiers.

FIFTH YEAR.

Revision and independent work.

REFRIGERATION MECHANIC (31)

FIRST 18 MONTHS.

1. Safety measures and first aid generally applicable to the trade.
2. Fire prevention and use of fire extinguishers.
3. Use and care of hand tools including filing, sawing, scraping, drilling, reaming and threading.
4. Lapping of reed valves and crankcase seals for compressors.
5. Reading drawings and marking off.
6. Use and care of marking-off instruments, internal and external calipers, micrometers and verniers.
7. Strength and qualities of metals.

19TH MONTH TO FOURTH YEAR.

8. (a) Refrigeration circuit;
- (b) qualities and uses of refrigerants and refrigerating oil; and
- (c) repairing and servicing all types of refrigerating apparatus, water cooled systems, freezing rooms and freezing units, including domestic and commercial refrigerators and heavy equipment used in large refrigerator rooms and air conditioning systems.

Simbole toegewys vir doeleindes van vakleerling se logboek.	Praktiese opleiding.	Symbols allocated for purposes of apprentice's log book.	Practical training.
(d) (e)	vensterrame; en rakkaste.	(e) (f)	preparation of test specimens; and symptoms and causes of rope deterioration.
18.	Paneelwerk en beter klas skryfwerk.	12.	Rope attachments.
19.	Van uitlêplanke af werk.	13.	Thimbles.
20.	Van tekenings af werk.	14.	Automatic detaching hooks.
21.	Werk van tekenings af ontwerp.	15.	Renewal of winding ropes including matching for length on:—
22.	Hoeveelhede opmeet en snylyste opstel.	(a)	conical drums; and
23.	Lyste innemkaarsit, pas en aansit.	(b)	parallel drums.
24.	Met skuurpapier skuur.	16.	Slinging and handling of heavy loads.
25.	Houtwerk: Buite- en binne-afwerking van geboue.	17.	Making and erecting boatswain's chairs.
26.	Houtvloere insit.	18.	Making guard plates and safety nets.
27.	Pas en aan- of insit van—	19.	Rigging on ships including aligning of masts.
(a)	deurkossyne;		
(b)	vensterkossyne;		
(c)	prentlyste;		
(d)	vloerlyste;		
(e)	kossynlyste en lyste;		
(f)	meubelst en		
(g)	toebchore en ysterware.		
28.	Hang van—		
(a)	deure; en		
(b)	vensterrame.		
29.	Ontwerp en oprig van—		
(a)	hout- en ysterbouwerk; en		
(b)	alle soorte dakke.		
30.	Gegolfde dakmateriaal en waterslagplanke aansit.	1.	Safety precautions and first aid normally applicable to the trade.
31.	Geboue: Opknop, hernuwe en verander.	2.	Hand sewing.
32.	Alle soorte steiers opsit.	3.	The use of rope and palms for:—
33.	Vir die nodige materiaal opmeet.	(a)	seaming;
34.	Swaar houtbouwerk: Maak en in stand hou.	(b)	splices;
35.	Opleiding in tekenkantoor.	(c)	types of seams;
		(d)	whippings; and
		(e)	the general use of rope, knots, holes and thimbles.
		4.	Cutting and designing small canvas covers and carpets.
	VYFDE JAAR.		
	Hersiening en onafhanklike werk.		
	AMBAG: VERKOELINGSWERKTUIGKUN- DIGE (26).		
	EERSTE 18 MAANDE.		
1.	Veiligheidsmaatreëls en eerstehulp soos op die ambag van toepassing.	5.	Use of heavy sewing machines.
2.	Brandvoorsorg en gebruik van brandblussers.	6.	Manufacture and finishing of ships awnings, etc., wire splicing and wire seizings.
3.	Gebruik en versorging van handgereedschap met in- begrip van vylwerk, saagwerk, skraapwerk, boor- werk, ruimwerk en skroefdraad sny.	7.	Measuring and designing of canvas covers and awnings for ships.
4.	Fynslyp van klepplaattjies en krukasafsluitings vir lug- perspompe.	8.	Boat sails and ships awnings, gun covers, winch covers, float screens, etc.
5.	Tekenings lees en werk afmerk.	(a)	measuring;
6.	Gebruik en versorging van afmerkinstrumente, binne- en buitespeermate, mikrometers en verniers.	(b)	sketching; and
7.	Sterkte en eienskappe van metale.	(c)	spreading.
		9.	Gain knowledge of signal flags and protective clothing.
	19DE MAAND TOT VIERDE JAAR.		
8.	(a) Die verkoelingskringloop.		
(b)	eienskappe en gebruike van koelmiddels en ver- koelingsolie.		
(c)	Alle soorte koeluitrusting—waterverkoelstelsels, vries- kamers en vrieseenhede herstel en versien met in- begrip van huishoudelik en handelskoelkaste en swaar uitrusting wat in groot koelkamer- en lug- vervoersingstelsels gebruik word.	1.	First aid and safety measures generally applicable to the trade.
9.	(a) Algemene smering.	2.	Under supervision of either an instructor or an artisan:—
(b)	Sweis en hardsoldeer.	(a)	use, handling and care of measuring instruments;
(c)	Eienskappe en gebruike van soldeer middels.	(b)	use and grinding of drills (bits);
10.	Pyppaswerk in koelinstallasies.	(c)	filing; and
11.	(a) Gebruik en instelling van instrumente benodig vir toetswerk en opspoor van foute.	(d)	soft and hard soldering (brazing).
(b)	Opspoor en herstel van foute in koelinrigtings.	3.	Use of band saw.
12.	(a) Installering en instandhouding van en herstelwerk aan lugreëlingsinstallasies met inbegrip van—	4.	Light turning.
(b)	waaiers;	5.	Knowledge of strength and use of various materials; reading of drawings
(c)	lugreinigers en filters;		
(d)	pompe;		
(e)	verdampingskondensators;		
(f)	koeltorings;		
(g)	verwarmers;		
(h)	selfstandige lugreëlingleenhede; en		
(i)	bevoogtigters.		
13.	Konstruksie en bediening van outomatiese reëlaars bv.—		
(a)	uitsetkleppe;		
(b)	solenoidkleppe;		
(c)	termostate; en		
(d)	servo-motors.		
		6.	Use and grinding of tools.
		7.	Lathe turning.
		8.	Shaping.
		9.	(a) Milling, and
		(b)	engraving.
		10.	Hand soldering.
		11.	Making gear and worm wheels.
		12.	Silvering.
		13.	French polishing and spray painting.
		14.	Making and repairing:—
		(a)	electrical;
		(b)	optical; and
		(c)	all other scientific instruments.
		15.	Straight and circular graduation.
		16.	Making drawings from sketches.

Simbole toegewys vir doeleindes van vakleerling se logboek.	Praktiese opleiding.	Symbols allocated for purposes of apprentice's log book.	Practical training.
14.	Elektriese werk nl.— (a) nasien van kringlope; (b) stel van en kleiner herstelwerk aan motors; (c) aansitters; (d) verwarmers en reëlaars; (e) elektrostatische filters in toebere; en (f) lees van elektriese diagramme. NOTA.—Minstens 6 maande van die derde jaar van vakleerlingskap moet aan item 14 afgestaan word en drie maande praktiese ondervinding moet in pas- en draaiwinkel opgedoen word.		FIFTH YEAR. Revision and independent work.
	VYFDE JAAR. Hersiening en onafhanklike werk.		SHIPWRIGHT (26). FIRST 18 MONTHS.
1.	EERSTE 18 MAANDE. Veiligheidsmaatreëls en eerste hulp normaalweg op die ambag van toepassing.	1.	Use and care of all hand tools (both wood and steel).
2.	Gebruik en versorging van handgereedskap.	2.	Knowledge and use of woods used in boat building.
3.	Basiese onderrig in paswerk met inbegrip van vylwerk, saagwerk, beitelwerk, skroef- en moerdraadsny in verskeie metale en boorwerk.	3.	Removing, preparing for repairs and fixing keelboards, caulking boards, thwart-boards and woodwork.
4.	Afmerkwark.	4.	Instruction in marking off and shaping of masts, booms, frame ribs and tackle.
5.	Masjieneerwerk op draaibank en skaaf.	5.	Simple stencilling.
	19DE MAAND TOT VIERDE JAAR.		19TH MONTH TO FOURTH YEAR.
6. (a)	Nagaan en herstel van vuurwapens met inbegrip van—	6. (a)	Instruction in various pressed shapes and soft steel plates used in ship building; and
(b)	agterstukmeganismes;	(b)	special attention to riveting systems and their uses in ship building.
(c)	astappe; en	7.	Fabricating from simple drawings.
(d)	ratkaste en- rakke.	8.	Instruction and training in developing, marking off and making general shapes from steel including ventilating trunks, bending in round, square and conical pipes.
7. (a)	Herstel en versiening van—	9.	Preparing work from drawings.
(b)	diepte bomwerpers;	10.	General welding applicable to the trade.
(c)	mortieragterstukmeganismes; en	11.	Practical training on board in building and alterations to rooms with special attention to water-proofing.
8.	afstandskleppe.	12.	Making of wood, aluminium and steel lockers.
9.	Herstel en versiening van wapenmonteer-kokers (casing) aan boord en op toetsbank.	13.	Making and installing steel items in rooms.
10.	Nagaan, herstel en versiening van wapentoerusting met inbegrip van torpedobuise, visiere en diepte-toerusting.	14.	Testing of water and oilproofed rooms on board.
11.	Herstel en instandhouding van wapen-hidrouliese- en lugdrukstelsels.	15.	Use of hand caulking tools.
12.	Herstel en instandhouding van meganiese toerusting, aandrywingsmotore en ratkaste van wapentuig.	16.	Three months' training in drawing office.
13.	Herstel en instandhouding van elektriese afstand-beheertoerusting onder toesig van spesiale ambags-lui.		FIFTH YEAR. Revision and independent work.
	Ondervinding in die algemene werking van lugdruk- en hidrouliese torpedotoerusting. (Minstens 3 maande).		SIGNWRITING (12). FIRST 18 MONTHS.
	VYFDE JAAR. Hersiening en onafhanklike werk.	1.	First aid and safety precautions applicable to the trade.
	AMBAG: WERKTUIGKUNDIGE (AANLEG-MASJINERIE) (8).	2.	Use and care of tools and materials.
	EERSTE 18 MAANDE.	3.	Preparation of surfaces.
1.	Veiligheidsmaatreëls en eerste hulp normaalweg op die ambag van toepassing.	4. (a)	use of pigments;
2.	Versorging van voertuie en toerusting.	(b)	use of thinners; and
3.	Gebruik en versorging van alle handgereedskap.	(c)	use of driers.
4.	Waar fasiliteite bestaan, die insleep van voertuie.	5.	Methods of applying paint.
5.	Smering en gewone diens aan voertuie en toerusting.	6.	Cleaning off old paint.
6.	Onderhoud en herstel van—		19TH MONTH TO FOURTH YEAR.
(a)	ontwikkelaars; en	7.	Mixing and applying paints.
(b)	waar moontlik alternators.	8.	Primary and secondary colours.
7.	Uitmekaarhaal en bepaal van slytasie op onderdele nl.—	9.	Painting and varnishing of all types of surfaces.
(a)	silinders;	10.	Advanced painting.
(b)	krukas;	11.	Varnishing and colour mixing and general knowledge of painting.
(c)	laers;	12.	Setting out and shaping of all types of lettering, including gold-leaf work.
(d)	nokaslaars;	13.	Erection of scaffolding and ladders.
(e)	nokasstange;		FIFTH YEAR. Revision and independent work.
(f)	kleppe en- leiers; en		TOOLMAKING (6). FIRST 18 MONTHS.
(g)	suiers en-penne.	1.	Safety measures generally applicable to the trade.
8.	Ontkool, slyp van kleppe, terugsit van silinderkop met besondere aandag aan spesifikasies en gebruik van wringsleutel en stel van kleppeninge.	2.	Names of tools.
9.	Afhaal en terugsit van wiele met inbegrip van lekherstel en vervanging van bande en binnebande.	3.	Use and care of tools.
10.	Afhaal en terugsit van—	4.	Use and care of measuring instruments.
(a)	koppelaars;	5.	Bench work, particular attention being paid to:—
(b)	ratkaste;	(a)	filig;
(c)	ewenaars;	(b)	sawing;
(d)	dryfaste;	(c)	scraping;
(e)	agterveerstelsels;	(d)	drilling;
		(e)	reaming;
		(f)	threading; and
		(g)	cutting.
		6.	Reading of drawings and application of drawings.
		7.	Strength and qualities of materials.

Simbole toegewys vir doeleindes van vakleerling se logboek.	Praktiese opleiding.	Symbols allocated for purposes of apprentice's log book.	Practical training.
(f) (g) (h) (i) (j) (k) (l) (m)	voorveerstelsels; enjinonderdele; enjinenehede; stuurstelsels; remstelsels; uitlaatstelsels; hidrouliese eenhede; en "power take off"-stelsels.	8. (a) (b) (c)	Elementary fitting; machining; and marking off which forms part of tool making templates, gauges and meters.
11.	Enjinenehede—petrol en dieselmekaarhaal van hele eenheid en terugmontering na algehele herstel van alle onderdele met inbegrip van— (a) suiers, ringe en suierpenne; (b) alle laers; (c) klepleiers en kleppe, klepvere en klepbeddings; (d) suierstange (conrods); (e) tandrat (ring-gear); en (f) kleptydratte.	9. (a) (b) (c)	19TH MONTH TO FOURTH YEAR. Training in work on all types of machine tools and bench work, including the making of; meters; and advanced marking off which ordinarily forms part of requirements in connection with tool room.
12.	Vuur- en openingsorde van kleppe en ontstekingsstelsel.	10.	Heat treatment of metal and knowledge of properties of materials.
13.	Algehele versiening, herstel en instandhouding van verkoelersstelsels met inbegrip van oliekoeling.	11.	Reading and application of drawings.
14.	Instel van enjin sonder instrumente.	12.	Inspection of manufacturing process and of finished article.
		13.	Use of special machines not continuously used in the trade.
	19DE MAAND TOT VIERDE JAAR.		FIFTH YEAR.
15.	Algehele herstelwerk aan, bepaling van slytasie, monteer en verstellings aan— (a) koppelaars; (b) kragoorengingstelsels (transmission); (c) dryfaste en koppelingen; (d) agterassstelsels; (e) voorassstelsels; (f) stuurstelsels; (g) veerstelsels; (h) remstelsels; (i) petrolpompe; (j) vergassers; (k) vonkstelsels; (l) hidrouliese stelsels; en (m) spoorbandstelsels.		Revision and independent work.
16.	Nasien en verstel van— (a) toesporing; (b) nasporing; (c) wielvlug; (d) klinkspilhellings; en (e) uitsporing.		WELDING (28).
17.	Elementêre gas- en elektriese sweiswerk, hardsoldeer en soldeerwerk.		FIRST 18 MONTHS.
18.	Toets, diagnose en instelling van— (a) foute in vuurstelsel; (b) foute in brandstofstelsel; (c) foute in enjin; (d) foute met koppelaars; (e) foute met kragoorenging; (f) foute met dryfaste; (g) foute met ewenaar; (h) foute met remstelsel; (i) foute met stuurstelsel; (j) foute met veerstelsel; (k) foute met elektriese toerusting; (l) foute met enjinkomponente; en (m) foute met kragafneemenehede.	1. 2. 3. 4. 5. 6. 7. (a) (b) (c) (d) 8. 9.	First aid and safety precautions applicable to the trade. Shop routine. Care and use of hand torch. General oxy-acetylene cutting. Simple welding work on mild steel. General welding—of simple fabricated work on mild steel. Welding:— flat; fillet; butt; and lap. General work on profile cutting machines. Reading of drawings.
19.	Elektriese toerusting:— (a) Battery nasien en herlaai; (b) ontwikkelelaar (borsels, busse, laers en skoonmaak van anker); en (c) aansitter (dieselfde as vir ontwikkelelaar).		19TH MONTH TO FOURTH YEAR.
20.	Regte gebruik van— (a) druktoetsmeter; (b) suigdrukmeter; (c) ampère- en voltmeter; (d) tachometer; (e) brandstofpomp- drukmeter; (f) tydreeëlig; (g) uitlaagasonstellers; (h) kondensator en spoeltoetsers; en (i) vonkpropkoonmakers en- toetsers. Hantering en gebruik van hystoerusting.	10. (a) (b) 11. 12. 13. 14. 15. 16. 17. (a) (b) (c) (d) (e) 18. (a) (b) (c) (d) (e) 19. 20. 21.	Welding:— vertical; and overhead. Electric arc welding. Brazing of different metals. Heavy profile cutting. Annealing. Setting out material to prevent distortion. Welding of fabricated pipes fittings. Electric welding of:— mild steel; cast iron; cast steel; aluminium and its alloys; copper and copper alloys; and stainless steel. Oxy-acetylene welding of:— mild steel; cast iron; cast steel; aluminium and its alloys; and copper and copper alloys. Welding of low pressure vessels. Advanced work with special reference to pre-heating temperature control. Stress relieving.
	VYFDE JAAR. Hersiening en onafhanklike werk.		FIFTH YEAR. Revision and independent work.

Kragtens artikel 16 (4) van die Wet op Vakleerlinge, 1944, soos gewysig, word alle belanghebbende persone wat beswaar teen bogenoemde voorneme het, aangesê om die besware binne 30 dae vanaf die datum van publikasie hiervan skriftelik in te dien by die Sekretaris, Staatsvakleerlingskapkomitee, Posbus 393, Pretoria.

M. VILJOEN,
Minister van Arbeid.

In terms of section 16 (4) of the Apprenticeship Act, 1944, as amended, all interested persons who have any objections to the above proposals are called upon to lodge the objections, in writing, with the Secretary, Government Apprenticeship Committee, P.O. Box 393, Pretoria, within 30 days of the date of publication hereof.

M. VILJOEN,
Minister of Labour.

No. R. 114.] [27 Januarie 1967.
WET OP NYWERHEIDSVERSOENING, 1956.

MOTORNYWERHEID, REPUBLIEK VAN
SUID-AFRIKA.

VERLEGGING VAN HOOFOOREENKOMS.

Ek, MARAIS VILJOEN, Minister van Arbeid, verleng hierby kragtens artikel 48 (4) (a) (i) van die Wet op Nywerheidsversoening, 1956, die tydperke vasgestel in Goewermentskennisgewings No. 600 van 26 April 1963, No. R. 1663 van 25 Oktober 1963, No. R. 248 van 21 Februarie 1964, No. R. 618 van 24 April 1964, No. R. 1487 van 25 September 1964, No. R. 2128 van 24 Desember 1964, No. R. 432 van 26 Maart 1965, No. R. 609 van 30 April 1965, No. R. 1698 van 29 Oktober 1965, Nos. R. 432, R. 433 en R. 434 van 18 Maart 1966, No. R. 657 van 29 April 1966 en No. R. 1479 van 30 September 1966 met 'n verdere tydperk van drie maande wat op 30 April 1967 eindig.

M. VILJOEN,
Minister van Arbeid.

No. R. 114.] [27 January 1967.
INDUSTRIAL CONCILIATION ACT, 1956.

MOTOR INDUSTRY, REPUBLIC OF SOUTH
AFRICA.

EXTENSION OF MAIN AGREEMENT.

I, MARAIS VILJOEN, Minister of Labour, hereby, in terms of section 48 (4) (a) (i) of the Industrial Conciliation Act, 1956, extend the periods fixed in Government Notices No. 600 of the 26th April, 1963, No. R. 1663 of the 25th October, 1963, No. R. 248 of the 21st February, 1964, No. R. 618 of the 24th April, 1964, No. R. 1487 of the 25th September, 1964, No. R. 2128 of the 24th December, 1964, No. R. 432 of the 26th March, 1965, No. R. 609 of the 30th April, 1965, No. R. 1698 of the 29th October, 1965, Nos. R. 432, R. 433 and R. 434 of the 18th March, 1966, No. R. 657 of the 29th April, 1966 and No. R. 1479 of the 30th September, 1966, by a further period of three months ending on the 30th April, 1967.

M. VILJOEN,
Minister of Labour.

INHOUD.

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