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GOVERNMENT NOTICES

SOUTH AFRICAN QUALIFICATIONS AUTHORITY

No. 1140

17 November 2006



SOUTH AFRICAN QUALIFICATIONS AUTHORITY (SAQA)

In order to proceed with the recognition of Standards Generating Bodies in terms of Government Regulations 19(1)(c) and 22(2) of 28 March 1998, National Standards Body 11, Services, invites public comment with respect to *the acceptability of the nominees and the representativeness of the key education and training stakeholder interest groups* listed as SGB applicants below.

In addition, the NSB invite submissions from interested parties wishing to serve on such an SGB. Interested parties should take note of the section on SGB Information below.

All nominations/ applications should be accompanied by curricula vitae.

More information regarding this application may be obtained on the SAQA website or from the SAQA offices.

Comment should reach the NSB at the address below by not later than **16 December 2006**. All correspondence should be marked **SGB for Transport and Logistics** and be addressed to:

The Director: Standards Setting and
Development
SAQA
Attention: Mr. E. Brown
Postnet Suite 248
Private Bag X06
Waterkloof
0145
or faxed to 012 – 431-5144
e-mail: ebrown@sqa.org.za

SGB INFORMATION

As a necessary step in the development and implementation of the National Qualifications Framework, The National Standards Bodies are briefed [regulation 19(1)(c) of 28 March 1998] to recognise or establish Standards Generating Bodies (SGBs).

SGBs shall:

- generate standards and qualifications in accordance with the Authority requirements in identified sub-fields and levels;
- update and review standards;

- c. recommend standards and qualifications to National Standards Bodies;
- d. recommend criteria for the registration of assessors and moderators or moderating bodies; and
- e. perform such other functions as may from time-to-time be delegated by their National Standards Body.

Any bodies wishing to nominate representatives, make application to serve on, or make any other submission with regard to the above SGB should note the following information.

SGBs should be composed of organisations, which shall be key education and training stakeholder interest groups and experts in the sub-field. The NSB, when making its final decisions will have due regard for, among other things, *'the need for representativeness and equity, redress and relevant expertise in terms of the work of the SGBs.'*

Organisations proposing to nominate persons to SGBs should be sensitive to the need for **equity** and **redress**, and shall nominate persons who-

- (a) will be able to consider issues of productivity, fairness, public interest and international comparability as related to education and training in the sub-field;
 - (b) enjoy credibility in the sub-field in question, who enjoy respect; have the necessary expertise and experience in the sub-field and have the support or backing of the nominating body;
 - (c) are able to advocate and mediate the needs and interests of all levels within the sub-field covered by the Standards Generating Body;
 - (d) are able to exercise critical judgement at a high level; and
 - (e) are committed to a communication process between the Standards Generating Body, the National Standards Body and the Constituency.
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PUBLIC NOTICE BY ORGANISING FIELD 11 SERVICES, OF AN APPLICATION TO RE-REGISTER A STANDARDS GENERATING BODY (SGB) FOR TRANSPORT AND LOGISTICS OPERATIONS

The Directorate for Standards Setting and Development hereby re-registers the SGB for Transport and Logistics Operations and proposes, in terms of NSB Regulation 24 (1) (e), to extend the brief and membership of the SGB at NQF levels 1 - 6

BRIEF OF THE SGB

1. Identify transformation, development and equity issues relevant to the sub-field Services and develop mechanisms to include these issues within qualifications and unit standards as envisaged in 2 below [Regulation 24 (1)(e)].
2. Generate and review qualifications in accordance with Authority requirements [Regulation 24 (1)(a)].
3. Recommend qualifications and unit standards generated under Item 2 to SAQA for registration on the NQF [Regulation 24 (1)(c)].
4. Recommend criteria for the registration of assessors, moderators and moderating bodies [Regulation 24 (1)(d)].
5. Review registered qualifications and unit standards that have reached the end of their registration period and make recommendations on their re-registration [Regulation 24 (1)(b)].
6. Accept and perform such other relevant functions as requested by Organising Field 11: Services [Regulation 24 (1)(e)].

SAQA'S MISSION

"To ensure the development and implementation of a National Qualifications Framework which contributes to the full development of each learner and to the social and economic development of the nation at large"

COMPOSITION OF THE SGB

NAME	WORKPLACE	NOMINATING BODY	QUALIFICATIONS/ EXPERIENCE
W Janse van Rensburg	SASOL	CHIETA	<ul style="list-style-type: none"> Diploma in Training and Development
Elize Korf	He & She Driver Training	He & She Driver Training Centre	<ul style="list-style-type: none"> Higher Education Diploma Assessor Moderator
Gavin Bromilow,	Dangerous Goods Training and Assessing Services (DANTRAN)	Dangerous Goods Training and Assessing Services (DANTRAN)	<ul style="list-style-type: none"> Certificate in Transport Economics
Marlene Kriel	Esselenpark Centre of Excellence	Transnet Group	<ul style="list-style-type: none"> B.A. Degree; Higher Education Diploma; Diploma in ETD (Materials and Assessment Design)
Karen Visser	University of the North West	University of the North West	<ul style="list-style-type: none"> B. Com (Honours) (Transport Economics) Lecturer
S Masoabi	EDCON Group Distributions	EDCON Group	<ul style="list-style-type: none"> B.A. Degree; Higher Education Diploma; Diploma: Personnel and Training Management
Peter Cleophas	Construction Education and Training Authority	Transport Omnibus Workers Union	<ul style="list-style-type: none"> Diploma Transport Management Management Development Programme Assessor Moderator
Johan de Klerk	South African Institute for Materials Handling (SAIMH)	South African Institute for Materials Handling (SAIMH) National Council	<ul style="list-style-type: none"> National Diploma in Engineering
Michael Eveleigh	Makwedeng Training CC	Makwedeng Training CC	<ul style="list-style-type: none"> 6 Years Logistics training experience, Assessor, Moderator Diploma in Road Transport Management (Road Freight)
Martine Maraschin	DHL Express	South African Express Parcel Association (SAEPA)	<ul style="list-style-type: none"> Business Management Diploma
Thulani Hlabangana	Sun Couriers	South African Express Parcel Association (SAEPA)	<ul style="list-style-type: none"> National Diploma in Business Studies: Accounting
Enos Mhlongo	Gerotrain Advanced Driving	Gerotrain Advanced Driving	<ul style="list-style-type: none"> Senior Certificate – National Department of Education
Charles Dey	Global Trade Training	Global Trade Training	<ul style="list-style-type: none"> National Diploma in Business Management, National Diploma Export Management Education, Training & Development Practitioner Skills Development Facilitator Assessor, Mentor, Moderator
Linda Mlotshwa	Petronet (Division of Transnet)	Petronet	<ul style="list-style-type: none"> B-Tech in HRD (Honours), Diploma in Personnel and Training Management Diploma in Education, Training and Development
Dave Tootil	Council of Supply Chain Management Professionals	e-Supply Chain Management	<ul style="list-style-type: none"> M.A Diploma in Research Consultant Supply Chain Management

SAQA'S MISSION

"To ensure the development and implementation of a National Qualifications Framework which contributes to the full development of each learner and to the social and economic development of the nation at large"

No. 1141

17 November 2006

**SOUTH AFRICAN QUALIFICATIONS AUTHORITY (SAQA)**

In accordance with regulation 24(c) of the National Standards Bodies Regulations of 28 March 1998, the Standards Generating Body (SGB) for

Secondary Agriculture: Processing

Registered by Organising Field 01, Agriculture and Nature Conservation, publishes the following qualification for public comment.

This notice contains the titles, fields, sub-fields, NQF levels, credits, and purpose of the qualification. The qualification can be accessed via the SAQA web-site at www.saga.org.za. Copies may also be obtained from the Directorate of Standards Setting and Development at the SAQA offices, SAQA House, 1067 Arcadia Street, Hatfield, Pretoria.

Comment on the qualification should reach SAQA at the address ***below and no later than 16 December 2006***. All correspondence should be marked **Standards Setting – SGB for Secondary Agriculture: Processing** and addressed to

The Director: Standards Setting and Development
SAQA
Attention: Mr. D. Mphuthing
Postnet Suite 248
Private Bag X06
Waterkloof
0145
or faxed to 012 – 431-5144
e-mail: dmphuthing@saga.co.za

DR. S. BHIKHA
DIRECTOR: STANDARDS SETTING AND DEVELOPMENT



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

QUALIFICATION:

Further Education and Training Certificate: Pest Control Operations

SAQA QUAL ID		QUALIFICATION TITLE	
57830		Further Education and Training Certificate: Pest Control Operations	
SGB NAME		ORGANISING FIELD ID	PROVIDER NAME
SGB for Secondary Agriculture: Processing		1	
QUAL TYPE		ORGANISING FIELD DESCRIPTION	SUBFIELD
Further Ed and Training Cert		Agriculture and Nature Conservation	Secondary Agriculture
ABET BAND	MINIMUM CREDITS	NQF LEVEL	QUALIFICATION CLASS
Undefined	141	Level 4	Regular-ELOAC

PURPOSE AND RATIONALE OF THE QUALIFICATION**Purpose:**

A learner who has achieved this qualification will have a firm foundation of competencies required by the pest control industry. The purpose of this qualification is to equip the learner with the skills needed to successfully and safely control target pests in a specific environment. It will provide learners with the opportunity to advance their knowledge and understanding of the science and practical implementation of pest control principles and procedures.

This will ensure that the learner will be able to protect people's health and property from organisms that cause economic damage or nuisance whilst minimising any detrimental effect to the environment.

This qualification shall ensure that the learner is eligible for registration as a Pest Control Operator in accordance with legislation.

This competence shall ensure quality within the industry and contribute to the improvement of the living standards of the peoples of South Africa.

Upon completion, learners will have achieved a competence in communication and functional mathematics, providing them with a platform to communicate and perform a range of mathematical calculations related to pest control operations at NQF level 4. Core learning will prepare the learner to carry out pest control operations using equipment and technology in a safe and effective manner within the pest control work and business environments. Learners have the opportunity to elect a specific area of pest control from the range of weed control, control of health and nuisance pests in commercial, industrial and domestic environments, control of subterranean termites, the preservation of timber structures and the control of wood destroying organisms. Specialisation also include the specialised techniques used to control these pests such as through fumigation controls using toxic gases.

Through the employment of persons who are competent to perform pest control operations, employers and in turn the field and sub-field have confidence that basic pest control related tasks will be performed efficiently and safely with a minimum impact on the natural environment.

Social development and economic transformation are enhanced through this qualification. Career development, personal recognition and job satisfaction are facilitated through the learning process associated with this qualification.

Rationale:

The FET Certificate: Pest Control Operations at NQF 4, is a key qualification in the Pest Control Industry and a prerequisite for registration as a Pest Control Operator in terms of Act 36 of 1947, as amended, with

specific reference to the regulations regarding the registration of Pest Control Operators published in terms of the provisions of this act.

As a founding member and signatory to the Orlando Protocol of 2002, A Charter for World-Wide Professional Environmental Pest Management, the South African Pest Control Services Industry Board, is committed to ensure that all SA pest control operations are performed in an environmentally responsible, safe and professional manner in support of the standards set by this protocol. This qualification establishes the required competencies in the SA pest control industry to ensure that this is achieved.

RECOGNIZE PREVIOUS LEARNING?

Y

LEARNING ASSUMED TO BE IN PLACE

It is assumed that the learner is competent in Communication and Mathematical Literacy at NQF Level 3.

Recognition of previous learning:

This Qualification may be achieved in part or completely through the recognition of prior learning, which includes formal, informal and non-formal learning and work experience and must adhere to the policies and procedures specified by the relevant ETQA. The learner should be thoroughly briefed on the mechanism to be used and support and guidance should be provided. Care should be taken that the mechanism used provides the learner with an opportunity to demonstrate competence and is not so onerous as to prevent learners from taking up the Recognition of Prior Learning option towards gaining a Qualification.

Access to the qualification:

Open access.

QUALIFICATION RULES

Learners must achieve a minimum of 141 credits to achieve this qualification made up as follows:

- > Fundamental Component: 56 credits
- > Core Component: 70 credits
- > Elective Component: 15 credits are achieved by completing any of the elective specialisation areas

All the Fundamental learning is compulsory.

All the Core learning is compulsory.

Learners are to choose one of the Elective learning specialization to complete the qualification.

The Elective Component consists of the following:

- > Controlling of weeds.
- > Controlling of health & nuisance pests in commercial, industrial & domestic environments.
- > Controlling of wood destroying organisms.
- > Controlling of subterranean termites.
- > The application of specialised fumigation practices including fumigation of soils or structures or commodities or marine vessels.

The learner must achieve a minimum of 15 credits from the selected Elective component.

EXIT LEVEL OUTCOMES

On achieving this qualification the learner will be able to:

1. Apply communication skills to satisfy internal and external customers.
2. Calculate and provide numerical information to enhance operational efficiencies and cost effectiveness of pest control operations.
3. Inspect for the presence of pests and vulnerabilities to infestation.
4. Identify the core pests commonly found in domestic, industrial and commercial environments.
5. Select, recommend and motivate appropriate pest control procedures.
6. Implement pest control procedures.
7. Monitor, measure and record the success of the control procedures.
8. Supervise operational team in the implementation of the above outcomes.
9. Identify the pests found in their field of speciality (weeds, health & nuisance pests in commercial, industrial & domestic environments, wood destroying organisms or subterranean termites).

10. Apply specialised pest control operations to control target pests in the specific area of speciality (control of weeds, control of subterranean termites, control of nuisance pests in commercial, industrial & domestic environments, preservation of timber structures, fumigation of soil, structures, commodities or marine vessels).

Critical cross-field outcomes:

This qualification addresses the following critical cross-field outcomes:

1. Identify and solve problems in which response displays that responsible decisions, using critical and creative thinking, have been made by:
 - > Addressing eventualities and unforeseen situations when performing pest control operations.
 - > Monitoring and controlling the effectiveness of pest control programs and implementing corrective measures where required.
 - > Controlling variables impacting on safe and effective pest control operations.
2. Work effectively with others as a member of a team, group, organisation or community by:
 - > Working in a coordinated team during pest control operations.
 - > Co-ordinating one's works with that of others in the direct surrounding work area, the internal organisational environment and the external work environment.
3. Organise and manage oneself and one's activities responsibly and effectively by:
 - > Following a structured and logical process when conducting pest control operations.
 - > Prioritising and implementing the steps to ensure safe and efficient pest control operations.
 - > Applying quality procedures in a pest control environment to ensure quality of services.
4. Collect, analyse, organise and critically evaluate information by:
 - > Identifying and isolating infestations by pests.
 - > Collating and sorting data collected.
 - > Monitoring the effectiveness of interventions.
 - > Maintaining records and completing reports.
5. Communicate effectively by using mathematical and/or language skills in the modes of oral and/or written presentations by:
 - > Reading and interpreting statutory regulations and technical publications.
 - > Reading and interpreting chemical labels and Materials Safety Data Sheets.
 - > Calculating volumes and ratios of chemical applications.
 - > Preparing and presenting reports.
6. Use science and technology effectively and critically, showing responsibility towards the environment and health of others by:
 - > Working according to health, safety and environmental protection regulations.
 - > Applying integrated pest control and environmentally sensitive principles and techniques.
7. Demonstrate an understanding of the world as a set of related systems by recognising that problem solving contexts do not exist in isolation by:
 - > Recognising the importance of an integrated approach to pest control operations that minimises the potential negative impact on the environment and ecological systems.
8. Contribute to the full personal development of each learner and the social and economic development of the society at large by:
 - > Understanding the contribution and impact of effective and safe pest control operations on the maintenance of health and hygiene standards of communities.
 - > Enhancing professionalism and quality of pest control services provided to the community by achieving the exit level outcomes of this qualification.

ASSOCIATED ASSESSMENT CRITERIA

Fundamental Learning:

1.

- > Oral and written communication skills are utilised to provide relevant information on the pest control operations taking into account the audience.
- > Oral and written communication skills are utilised to report information to relevant role players and regulating bodies with regard to pest control operations.
- > Information to achieve work responsibilities is collected from appropriate sources.
- > People are treated with integrity, respect and empathy regardless of culture, gender, class, "race" and belief systems.

2.

- > Required treatment volumes and costs are accurately calculated and recorded.
- > Basic numeracy, financial and analytical procedures and principles are applied to make sound judgments and predictions.
- > Data on operational costs are collected and statistically analysed and used to determine operational efficiencies.
- > Financial costs are accurately calculated and trends monitored against operational budgets.
- > Financial trends and statistical information is accurately presented in graphical illustrations.
- > Financial forecasts and budgets are accurately calculated and compiled.

Core Learning:

3.

- > The presence of pests is identified according to standard industry practice by their biology, habits, habitats and evidence of their inhabiting an environment.
- > Vulnerabilities to infestation, including, food and water sources, entrance points and pest harbourages are identified according to standard industry practice.
- > Differentiation between active infestation, evidence of active infestation and existing damage by the pest are accurately executed according to standard industry practice.

4.

- > Samples of pests are collected according to standard industry practice.
- > Pests are accurately identified by their behaviour, physical and morphological characteristics.
- > The habitats of pests are identified and isolated according to physical and environmental indicators.
- > Resources available from the workplace and other external sources are accessed and used in order to identify the pest.

5.

- > Appropriate intervention measures are identified and selected that support standard protocols and acceptable industry practice.
- > Client needs and expectations are clearly established and confirmed prior to the implementation of a pest control procedure.
- > A pest management programme is designed which contains an appropriate intervention method that will ensure safe and efficient control of the target pest.
- > Pest management programs are designed according to the principles of an integrated pest management approach.
- > A programme is assigned to meet all the requirements specified by regulations, standards, protocols and accepted industry practice aimed at managing the potential impact of the pest management process on the environment and the eco-system.
- > Reasons for selection of the intervention measures are discussed and motivated in terms of compliance with regulations, standards, protocols and accepted industry practice.

6.

- > The pest management programme is systematically implemented according to a structured and documented plan of action.
- > Appropriate safety precautions are taken in the implementation of pest control procedures.
- > Pesticide application equipment is used in accordance with the manufacture specifications.
- > Legislative, regulatory provisions, standards and protocols are complied with when implementing a pest control program.
- > Pest control methods are implemented in accordance to safety regulations and protocols.

- > Measures to limit the impact on the environment and the ecosystem are adhered to according to standard industry practice.
- > Customer service is provided which meets the required standard of the organisation and meets the customer's expectations.
- > All regulatory and standard workplace documentation is accurately and comprehensively completed and administered.
- > The worksite or area is cleaned and restored at completion according to industry standards.

7.

- > A technique suitable for monitoring the effectiveness of the control procedure implemented is selected and applied.
- > The monitoring programme is implemented and the results measured and recorded according to standard workplace procedures and documentary requirements.
- > Adverse or unforeseen results are recorded and reported according to regulatory provisions and standard workplace procedures.
- > Results of the control procedures are assessed against client requirements and reported according to workplace procedures and standard documentation.

8.

- > The actions of subordinate persons assisting with implementing pest control operations are monitored and controlled to ensure compliance with health, safety and environmental protection standards.
- > The duty to inform and train subordinate persons assisting with the pest control operations is complied with according to health and safety legislative provisions.
- > The achievement of defined performance outcomes by work teams are monitored and corrected where required in a constructive, fair and participative manner.

Elective Learning:

9.

- > Samples of pests are collected according to standard industry practice.
- > Pests are accurately identified by their behaviour, physical and morphological characteristics.
- > The habitats of pests are correctly identified and isolated according to physical and environmental indicators.
- > Resources available from the workplace and other external sources are accessed and used in order to identify the pest.

10.

- > Techniques and procedures are selected and applied demonstrate learner competence in controlling specific pests in the elected specialised area.
- > Specific complexities and measures are understood and applied that will ensure effectively control of the pests in the selected specialisation area.
- > Equipment is selected and used to ensure safe and effective pest control operations in the selected area of specialisation.
- > Specific regulatory provisions and standard protocols that apply to the selected area of specialisation are adhered to.
- > All regulatory and standard workplace documentation is accurately and comprehensively completed and administered.

Integrated assessment:

The applied competence (practical, foundational and reflective competencies) of this qualification will be achieved if a learner is able to achieve all the exit level outcomes of the Qualification. The identification and solving of problems, working in a team, organising self, using data, understanding the implications of actions and reactions in the world as a set of related systems must be assessed using a combination of practical, foundational and reflexive competency assessment methods and tools.

Assessors should assess and give credit for the evidence of learning that has already been acquired through formal, informal and non-formal learning and work experience.

Integrated assessments should assess combinations of practical, applied, foundational and reflective competencies. Formative and summative assessment must be used to determine the development of the whole person and the integration of applied knowledge and skills in the field of pest control operations.

While assessment should be done in an integrated manner, certain Exit Level Outcomes will be measured and verified through assessment criteria assessed in one application.

Assessors should check that the learner can demonstrate an ability to consider a range of options, make decisions and apply the above listed skills and knowledge skills in an integrated manner in a pest control environment.

INTERNATIONAL COMPARABILITY

The Orlando Protocol of 2002, A Charter for World-Wide Professional Environmental Pest Management is regarded as a best practices benchmark for all pest control operations by the South African Industry. The exit level outcomes of the FET Certificate: Pest Control Operations seeks to specifically address the competencies required in supports the principles and best practices of the Orlando Protocol. The key principles of the Orlando Protocol of 2002 must be regarded as a benchmark and must be used as a best practices guide for this qualification and all learning towards the achievement of this qualification, as follows:

Integrated pest management: Achieve effective pest management and minimize the potential for exposure to pesticide by adhering to the principles of Integrated Pest Management. In particular, protect all people and especially children, from the adverse affects of pests in such a manner that does not pose any undue risk to their safety through the use of pesticides to control pests and diseases.

Training and education: Every manager is responsible for the application of pesticides, and every technician who applies pest management products, should be verifiably trained to ensure appropriate, effective and safe application of the products, in addition to appropriate knowledge of the pests to be controlled.

Work safety: Every pest control technician, or enterprise, should act during the execution of its work in a way such that it neither causes injury nor damage to any other person, nor to himself.

Environmental protection: Pest management products should be transported, stored, mixed and disposed of in a manner which preserves the quality of the ecosystem, including soil, water and endangered species.

Waste reduction: Efforts by government agencies and the industry to encourage the minimization of waste and the safe disposal of products and their packaging.

Provision of information: An open approach to the provision of appropriate information to the general public on public health pesticides and pest management techniques.

Research: Increased public and private funding for the development of effective, reduced-risk products and technologies for the management of all public health and nuisance pests.

Government regulation: Operate within the legislative framework of state, regional and national governments, whilst encouraging governments to take account of the pest control industry's views and expertise.

Product registration: The independent registration of pesticides by Government agencies and the control of the use of new and existing compounds based upon assessments using contemporary scientific standards.

Harmonization of registrations: All governments are encouraged to work towards a common approach to pesticide registration.

Social responsibility: The industry must act beyond the arena of pest management alone. The industry seeks to observe and promote the well-being of those people employed within it, whilst fostering and promoting an attitude of social responsibility. The industry must aim to ensure that the results of their labour contribute to the development of a better and healthier society, whilst offering those who work within the industry pride in their achievements and the knowledge that their endeavours serve to create a better world.

International comparability studies of comparable qualifications were done by means of an extensive internet search of various English speaking countries. The following are qualifications and unit standards registered on various qualification frameworks that are comparable to this qualification.

A number of qualifications have been registered under the New Zealand Qualification framework at levels 2 to 4. These qualifications are aligned to the management of specific pests such as:

- > Compliance and Regulatory Control (Vertebrate Pest Management) (Level 2) (Ref: 0530).
- > Compliance and Regulatory Control (Vertebrate Pest Management) (Level 4) (Ref: 0531).

- > Compliance and Regulatory Control (Pest Plant Control) (Level 4) (Ref: 0529).
- > National Certificate in Urban Pest Management with specific electives for fumigation, vertebrate pests, wood borer, shooting, bird control, and textile pests (Levels 2 or 3) (Ref: 0256).

These qualifications include a number of unit standards that compares well to the exit level outcomes of this qualification such as:

Comparable unit standards registered under the domain Pest Control includes:

No; Level; Credits; Title

- > 21556; 2; 2; Control weeds under supervision.
- > 21554; 2; 3; Demonstrate knowledge of safety with agrichemicals.
- > 21555; 2; 4; Demonstrate knowledge of weeds and their control.
- > 21562; 2; 2; Identify and interpret agrichemical product information.
- > 21561; 2; 2; Use, maintain, and store agrichemical application safety equipment.
- > 21560; 3; 6; Demonstrate knowledge of agrichemicals.
- > 20787; 3; 3; Demonstrate knowledge of avian biology and environmental impact as a pest species.
- > 20788; 3; 6; Demonstrate knowledge of mustlid biology and environmental impact as a pest species.
- > 20789; 3; 6; Demonstrate knowledge of possum biology and environmental impact as a pest species.
- > 21563; 3; 5; Demonstrate knowledge of the HSNO Act, and NZS 8409:2004 for the use of agrichemicals.

Comparable unit standards listed under the Vertebrate Pest Management qualifications includes:

No; Unit Standard Title; Level; Credit

- > 4234; Take follow-up action for non-compliance; 4; 4.
- > 4238; Interview to collect evidence; 6; 4.
- > 10426; Apply Health and Safety in Employment Act 1992; 6; 2.
- > 11283; Communicate with clients in a compliance context; 4; 6.
- > 14547; Manage vertebrate pest programme; 4; 6.
- > 14933; Establish, collect evidence, and write a report for a compliance breach; 4; 4.
- > 19584; Demonstrate knowledge of vertebrate pest monitoring methods; 4; 8.

Comparable unit standards listed under the Pest Plant Control qualifications includes:

ID; Title; Level; Credit

- > 4223; Describe the powers of a compliance officer; 3; 4.
- > 4230; Plan inspections; 4; 4.
- > 10425; Apply Health and Safety in Employment Act 1992 in own workplace; 4; 2.
- > 11283; Communicate with clients in a compliance context; 4; 6.
- > 14546; Identify and inspect property during an animal control, vertebrate or pest plant investigation; 2; 3.
- > 14548; Identify pest plants; 4; 5.
- > 14549; Recommend pest plant control programme; 4; 7.
- > 14550; Choose pest plant control method; 3; 7.
- > 14933; Establish, collect evidence, and write a report for a compliance breach; 4; 4.
- > 14934; Represent a compliance and regulatory control authority while an employee; 2; 4.

The Royal Society for the Promotion of Health and the British Pest Control Association registered the National Certificate in Pest Control (100/1631/4) (Level 2) as the national standard that must be achieved for registration as a Pest Control Technicians in the United Kingdom. The learning outcomes of this qualification are as follows:

- > State the required underpinning knowledge (including legislation and data sheets as highlighted in the assessment criteria).
- > Recognise and state damage caused by a specified vertebrate pest species.
- > Identify possible implications from the damage caused.
- > Identify chosen species at different levels of maturity.
- > Assess environmental sensitivity.
- > Identify typical habitats.
- > Explain natural population control.
- > Identify nature and source of pest infestation at a given site.
- > Carry out and implement a practical Risk Assessment.
- > Assess the environmental status of the given site.
- > Identify non-target species present.

- > Demonstrate a range of control methods, including the use of harmful substances/poisons.
- > Clear up after the operation and complete appropriate records.

These learning outcomes compares well with the exit level outcomes of the Certificate: Pest Control Operations at Level 4.

Two qualifications registered on the Australian Qualifications Framework are comparable to the unit standards and the qualifications hereby submitted for registration.

PRM20298 Certificate II in Asset Maintenance (Pest Management - Technical):

To achieve recognition at Certificate II level, the candidate must have demonstrated competency against all 5 specified core units.

Core Units:

- > PRMPM01A Respond to customer inquiry.
- > PRMPM05A Modify environment to manage pests.
- > PRMPM06A Apply pesticides to manage pests.
- > PRMPM09A Inform and educate clients on pest management.
- > PRMPM18A Maintain an equipment and consumables storage area.

PRM30298 Certificate III in Asset Maintenance (Pest Management - Technical):

For recognition at Certificate III level, the candidate must have demonstrated competence against all core units and at least 1 elective unit from the list provided

Core Units:

- > PRMPM01A Respond to customer inquiry.
- > PRMPM02A Assess pest management options.
- > PRMPM03A Provide quotation.
- > PRMPM04A Prepare and present a submission for pest management program.
- > PRMPM05A Modify environment to manage pests.
- > PRMPM06A Apply pesticides to manage pests.
- > PRMPM07A Establish and monitor a preventative pest management program.
- > PRMPM09A Inform and educate clients on pest management.
- > PRMPM16A Resolve client's pest management problems.
- > PRMPM17A Repair and maintain service equipment.
- > PRMPM18A Maintain an equipment and consumables storage area.
- > PRMPM28A Select, set up and control a pest management vehicle.

Elective Units:

- > PRMPM08A Inspect and report on timber pests.
- > PRMPM10A Control timber pests.
- > PRMPM11A Eradicate pests through fumigation.
- > PRMPM19A Organise and monitor pest management operations.
- > PRMPM26A Select and obtain pest management equipment and materials.
- > BSX0008/01 Prepare for Training (Category 1 Workplace Trainer).
- > BSX0008/02 Deliver Training (Category 1 Workplace Trainer).
- > BSX0008/03 Review Training (Category 1 Workplace Trainer).

African countries with processing facilities (including SADC countries) were searched for applicable qualifications or training programmes, but no relevant qualifications are offered in any of these countries.

Concluding notes on the New Zealand, United Kingdom and Australian comparisons:

The FET Certificate: Pest Control Operations compares well with the best international qualifications and training programmes offered.

ARTICULATION OPTIONS

The Certificate: Pest Control Operations at Level 4 allows the learner to progress vertically to HET qualifications aimed at the educational needs of health inspections, entomological studies and various environmental control practices. These fields of learning are generally accepted by the industry as the further level of learning for Pest Control Officers in the industry. The qualifying learner also be able to make a career choice and to progress to generic management qualifications.

The generic knowledge and expertise enables the learner to progress horizontally in a range of other qualifications where knowledge of the control of pests in a safe and effective manner is necessary such as qualifications in Agricultural Production Practices, Environmental Control Practices and Health Inspection Services.

MODERATION OPTIONS

- > Anyone assessing a learner or moderating the assessment of a learner against this Qualification must be registered as an assessor with a relevant ETQA or with an ETQA that has a Memorandum of Understanding with the relevant ETQA.
- > Any institution offering learning that will enable the achievement of this Qualification must be accredited as a provider with the relevant ETQA or with an ETQA that has a Memorandum of Understanding with relevant ETQA.
- > Moderation of assessment will be overseen by the relevant ETQA or by an ETQA that has a Memorandum of Understanding with the relevant ETQA, according to the relevant ETQA's policies and guidelines for assessment and moderation.
- > Moderation must include both internal and external moderation of assessments at exit points of the qualification, unless ETQA policies specify otherwise.

CRITERIA FOR THE REGISTRATION OF ASSESSORS

For an application to register as an assessor for this qualification, the applicant should:

- > Be a registered Pest Control Operator in accordance with the regulations issued under Act 36 of 1947, as amended, or hold an qualification on equivalent value and content.
- > Have at least three years experience in Pest Control Operations at the level of this qualification or at a higher level.
- > Be registered as an assessor with the relevant ETQA or with an ETQA that has a Memorandum of Understanding with the relevant ETQA.

NOTES

This qualification is based on exit level outcomes only. To enable the learner to obtain the best possible outcome from fundamental component of this qualification, the following unit standards are may be found useful as a means to successfully completing the qualification:

- > SAQA ID 8968: Accommodate audience and context needs in oral communication.
- > SAQA ID 8969: Interpret and use information from texts.
- > SAQA ID 8973: Use language and communication in occupational learning programmes.
- > SAQA ID 8970: Write texts for a range of communicative contexts.
- > SAQA ID 8974: Engage in sustained oral communication and evaluate spoken texts.
- > SAQA ID 8975: Read analyse and respond to a variety of texts.
- > SAQA ID 12153: Use the writing process to compose texts required in the business environment.
- > SAQA ID 8976: Write for a wide range of contexts.
- > SAQA ID 7468: Use mathematics to investigate and monitor the financial aspects of personal, business, national and international issues.
- > SAQA ID 13941: Apply the budget function in a business unit.
- > SAQA ID 12417: Measure, estimate & calculate physical quantities & explore, critique & prove geometrical relationships in 2 and 3 dimensional space in the life and workplace of adult with increasing responsibilities.
- > SAQA ID 9010: Demonstrate an understanding of the use of different number bases and measurement units and an awareness of error in the context of relevant calculations.
- > SAQA ID 9012: Investigate life and work related problems using data and probabilities.
- > SAQA ID 120163: Apply basic numeracy, financial and analytical procedures and principles to make sound judgments and predictions.

UNIT STANDARDS

(Note: A blank space after this line means that the qualification is not based on Unit Standards.)

No. 1142

17 November 2006

**SOUTH AFRICAN QUALIFICATIONS AUTHORITY (SAQA)**

In accordance with regulation 24(c) of the National Standards Bodies Regulations of 28 March 1998, the Standards Generating Body (SGB) for

Secondary Agriculture: Processing

Registered by Organising Field 01, Agriculture and Nature Conservation, publishes the following qualification for public comment.

This notice contains the titles, fields, sub-fields, NQF levels, credits, and purpose of the qualification. The qualification can be accessed via the SAQA web-site at www.saga.org.za. Copies may also be obtained from the Directorate of Standards Setting and Development at the SAQA offices, SAQA House, 1067 Arcadia Street, Hatfield, Pretoria.

Comment on the qualification should reach SAQA at the address *below and no later than 16 December 2006*. All correspondence should be marked **Standards Setting – SGB for Secondary Agriculture: Processing** and addressed to

The Director: Standards Setting and Development
SAQA

Attention: Mr. D. Mphuthing

Postnet Suite 248

Private Bag X06

Waterkloof

0145

or faxed to 012 – 431-5144

e-mail: dmpthuthing@saga.co.za

DR. S. BHIKHA

DIRECTOR: STANDARDS SETTING AND DEVELOPMENT



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

QUALIFICATION:

General Education and Training Certificate: Grain Handling Processes

SAQA QUAL ID	QUALIFICATION TITLE		
57829	General Education and Training Certificate: Grain Handling Processes		
SGB NAME	ORGANISING FIELD ID	PROVIDER NAME	
SGB for Secondary Agriculture: Processing	1		
QUAL TYPE	ORGANISING FIELD DESCRIPTION	SUBFIELD	
National Certificate	Agriculture and Nature Conservation	Secondary Agriculture	
ABET BAND	MINIMUM CREDITS	NQF LEVEL	QUALIFICATION CLASS
Undefined	120	Level 1	Regular-Unit Stds Based

PURPOSE AND RATIONALE OF THE QUALIFICATION**Purpose:**

Learners acquiring this qualification will be able to combine Fundamental, Core, and Elective unit standards in order to obtain competence linked to best practice.

Learners will, once assessed and qualified, be able to:

- > Demonstrate competence in basic grain handling principles.
- > Perform routine maintenance.
- > Care for tools and equipment.
- > Perform cleaning functions related to the grain handling industry, according to prescribed industry quality standards.

Acquiring these skills and knowledge will allow for progression towards other qualifications within grain handling as well as portability of learning to other qualifications in Secondary Agriculture Processing.

Rationale:

The sector for secondary agriculture processes conducted a field analysis study that eventually pointed out at two major areas, namely, the gap that exists between NQF level 1 and NQF level 2 qualifications in terms of skills need and the level of literacy in foundational knowledge required to carry out certain functions in the sub-sector. The learners who are currently employed in the sector don't necessarily hold a formal qualification at NQF level 1. Findings confirmed the need to ensure progression and access to level 2 on the NQF.

This qualification is aimed at equipping learners who have no foundational knowledge and the necessary skills required in the areas of grain handling and processing of agricultural product. Currently, the category of learners employed at the entry level do not necessarily have the required skills. Those that have the skills have not gone through a formal recognition process. This qualification will also provide learners with access to basic knowledge and skills required to perform routine maintenance and grain handling at NQF level 2 in the grain handling industry.

RECOGNIZE PREVIOUS LEARNING?

Y

LEARNING ASSUMED TO BE IN PLACE

Learners who would like to access this qualification should have demonstrated competency in Communication and Mathematical Literacy at ABET level 3.

Recognition of prior learning:

The qualification may be achieved in part or as a whole through the Recognition of Prior Learning process for the unit standards.

QUALIFICATION RULES

This qualification consists of a minimum of 120 credits, composed of:

- > Fundamental: 39 credits.
- > Core: 65 credits.
- > Electives: 16 credits.

EXIT LEVEL OUTCOMES

1. Demonstrate an understanding and use of work place related tools and equipment, safety practices and technology associated with Grain handling processes.
2. Demonstrate an understanding of intake and grain storage hygiene.
3. Perform duties to collect representative grain samples according to statutory requirement.
4. Apply communication and numeric skills effectively in a Grain handling environment.

ASSOCIATED ASSESSMENT CRITERIA

1.
 - > The processes to care for hand tools, utensils and electronic equipment are explained and utilized according to worksite requirements.
 - > Appropriate procedures for dealing with safety, health and environmental emergencies or incidents in the work place are recognised and applied.
2.
 - > The process to inspect contamination in grain is explained.
 - > The grain dispatch containers are disinfected and sealed according to industry based standards.
 - > The grain bins are depleted according to safety regulations.
3.
 - > Tools and equipment are identified and utilized to collect grain sample.
 - > Effects of noxious seeds are explained.
 - > Process of sifting sample is explained and demonstrated.
4.
 - > Appropriate communication strategies are used and applied in a coherent manner to accommodate cultural diversity.
 - > Numeracy and mathematical skills are recognized and applied in personal financial transactions.

Integrated assessment

The integrated assessment allows the Learners the opportunity to show that they are able to utilize concepts, ideas and actions across the unit standards. This will allow Learners to achieve competency that is in keeping with the purpose of the qualification.

An integrated assessment will indicate how theoretical learning is demonstrated in a practical environment in such a way that the application of the work learnt becomes second nature.

In conducting an assessment, the quality of the performance must also be evaluated that is both the performance and the thinking behind the action must be qualitative.

The assessment should include both formative and summative options and should use various assessment tools that are not by observation only. It is required that a Portfolio of evidence should form part of the summative assessment, with practical outcomes being demonstrated in a simulated or real work place situation.

A broad range of task-orientated and theoretical tools may be used, with the distinction between practical knowledge and foundational knowledge being maintained.

It is recommended that the assessment tools give Learners the opportunity to account for their decision-making and problem solving in line with the specific outcomes and related assessment criteria.

As a result of this qualification being generic in forming the foundation for a career in Grain Handling processes, learners should be assessed in occupational contexts and activities. The assessment should ensure that the foundational skills are portable and prepare them for further learning, whatever career path they may choose.

INTERNATIONAL COMPARABILITY

Benchmarking was done on an international basis and a search was done to find international unit standards, qualifications and courses specific to the grain handling industry. The United States of America is one of the world's leaders in grain production and handling and therefore it was more extensively used in the comparability study. It must be noted that their requirements differ from the South African Qualification.

However, unit standards in the milling area were found but nothing specific to grain handling could be found. It must be noted that extensive short courses or programmes were found which is extensively done by organizations and companies involved in the industry, no formal qualification exist on level 1 or below. The type of training offered is mainly for learners working in storage facilities and handling equipment but not specifically related to the grain handling industry. This training is predominantly designed to prevent injuries, death as main causes in the industry.

Furthermore, an extensive investigation was done in Industry Training Advisory Bodies within the sector and evolving learning strategy was considered as best practice for the market.

In conducting research the following countries were looked at:

- > United States of America.
- > Zambia.
- > India.
- > New Zealand.

These were examined, and the notable similarities and dissimilarities are:

United States of America
RSI Educational Foundation

One-day Grain Handling Operations Safety Training Seminar.

- > How to deal with common health hazards.
- > Dust.
- > Fire.
- > Explosions.
- > Pesticides.
- > Fumigants.
- > Falls.
- > Confined Space.
- > Man Lifts.
- > Tool Safety.
- > Guards & Shields.
- > Electrical.
- > Hazard Communications.
- > Bucket Elevator leg Safety Issues.

Three-day Grain Handling Operations Safety Training Seminar.

- > Course Content.
- > General Safety Orientation.
- > Hazard Communications.
- > Bucket Elevators.
- > Dust Control.
- > Contractor Safety.
- > Electrical Equipment Control & Hazards.
- > Emergency Action Planning.
- > Fires & explosions.
- > Grain Dust Hazards.
- > Hot Work Permits.
- > Housekeeping.
- > Ladders.
- > Lock-out/Tag-out.
- > Man lifts.

- > Pesticide & Chemical Handling.
- > Rail Car Handling.
- > Preventative Maintenance.
- > Respiratory Protection.
- > Dump Truck Operations.
- > Walkways & Work Surfaces.
- > Safety Procedure Development.

These two courses do not compare well with ours as they focus on educating the people on hazard recognition, safe work practices and compliance with OHSA. They do not focus on the actual handling of grain and the maintenance required. The only operator training is for elevators and dump trucks.

Systems Interface Consultants

Grain Handling Facility.

- > Course Content.
- > Emergency Action Plan.
- > General Precautions & Hazards.
- > Entry into Bins, Silos and Tanks.
- > Contractors.
- > Housekeeping.
- > Grate Openings.
- > Filters.
- > Preventative Maintenance.
- > Grain Stream Processing Equipment.
- > Emergency Escape.
- > Continuous Flow Bulk Raw Grain.
- > Inside a Bucket Elevator.

This course also focuses mainly on the health and safety aspects of working with grain in storage, with some emphasis placed on preventative maintenance. It also appears to be for a higher level than level 1.

Worldwide Training

Food & Agriculture Organisation Of The United Nations

Grain Storage Techniques.

- > Economics of Grain Handling.
- > The Biodeterioration of Grain and the Risk of Mycotoxins.
- > Quality and Grading of Grain.
- > Grain Harvesting, Threshing and Cleaning.
- > Drying Methods.
- > Storage at Farm/Village Level and in Warehouses.
- > Bulk Storage.
- > Insect Control.
- > Rodent Control.

The above learning is not comparable at this level and it is evident this course is for a much higher level than our Qualification. Although it covers areas of grain storage it looks at it from a management and control perspective.

Zambia

The In-Service Training Trust Of Zambia

Grain Management

- > Accounting & Budgeting.
- > Preparation of Business Plans.
- > Capital Investment.
- > Costing and Pricing.
- > Grain Quality Determination.
- > Sampling, Grain Drying, Cleaning and Shelling.
- > Storage structures.
- > Stacking & Grain Handling Equipment.

It is evident from the title that this course is for a much higher level and therefore does not compare well with our Qualification. The only similar areas are that of Grain Handling Equipment.

India
Indian Grain Storage Management & Research Institute

Long Term Training (two months) on 'Scientific Methods of Storage and Inspections of Food grains'

- > Course Details
- > Storage Pest Management and Fumigation.
- > Pesticide Residue Analysis.
- > Chemical and Physical of Food grain.
- > Rodent Control.

The above course like many of its counterparts does not compare well with the level 1 South African one as it is pitched at a much higher level and focuses on pest and rodent control as opposed to ours which deals with the actual grain handling skills.

New Zealand

- National Qualifications Framework - Grain, Seeds and Crops.
- > ID9088 - Operate grain, seed or pulse storage equipment and facilities - Level 3 - 15 credits.
 - > Organise Crop Storage - Level 3 - 9087 - 2 credits.

These two standards compare quite well with this Qualification in that they deal with the actual process of handling and storing grain.

Other qualifications found in related industries cannot be compared against this qualification. The reason is that other qualifications concentrate on structures and equipment but to the handling of grain. In other countries different methods and systems are used for storage of grain.

The Industry conducted a field analysis for training and development in grain handling, the outcome was that this qualification offers best practice in the following areas:

- > Collect representative grain samples.
- > Routine maintenance.
- > Apply grain storage hygiene principles.
- > Apply communication and numeric skills effectively in a grain handling environment.

The above mentioned best practice makes the distinction between South-African Qualification and that of other countries. It is believed that this qualification will not be only of benefit to the learner but also to the industry as a whole.

There is no doubt a shortage of standards, courses and qualifications in the international arena from which to make direct comparisons. It must be stated therefore that no formal qualifications exist at this level. Most of what does exist deals with best practices for entering and working within grain storage structures and all Occupational Health and Safety issues pertaining to this.

ARTICULATION OPTIONS

This qualification lends itself to vertical articulation possibilities. These possibilities ensure both mobility and progression for the learner in the fields of learning within the agricultural industry such as feed production and will provide the learner with an opportunity to progress at a higher level of learning:

This qualification articulates with the following qualifications:

- > National Certificate: Grain Milling at NQF Level 2 ID: 48648.
- > National Certificate: Farming at NQF Level 2 ID: 20288.

MODERATION OPTIONS

Anyone assessing a learner against these unit standards must be registered as an assessor with the relevant ETQA and have the experience or in depth knowledge of the Agri Trade or Wholesale and retail industry.

Any institution offering learning that will enable achievement of these unit standards or will assess these unit standards must be accredited as a provider with the relevant ETQA. Moderation of assessment will be overseen by the relevant ETQA according to the moderation guidelines in the relevant qualification and the agreed ETQA procedure.

Therefore anyone wishing to be assessed against these unit standards may apply to be assessed by any assessment agency, assessor or provider institution which is accredited by the relevant ETQA.

CRITERIA FOR THE REGISTRATION OF ASSESSORS

Assessors must:

- > Be accredited as assessors by the relevant ETQA.
- > Have experience or in depth knowledge of the Grain Handling or Milling industry.
- > Meet any other requirements that may be stipulated by the relevant ETQA.

NOTES

When learners enter into learning program, the fundamental component of this qualification is addressed first. Learners have to be competent in terms of communication and numeracy, before the attempt to complete core and elective unit standards. Learning material for learners for this qualification do exist.

UNIT STANDARDS

(Note: A blank space after this line means that the qualification is not based on Unit Standards.)

	UNIT STANDARD ID AND TITLE	LEVEL	CREDITS	STATUS
Core	8139 Storage of stock	Level 1	4	Reregistered
Core	8156 Collect representative grain sample	Level 1	4	Reregistered
Core	8163 Unload grain consignments in bulk	Level 1	2	Reregistered
Core	8167 Inspect stored grain	Level 1	4	Reregistered
Core	8176 Prepare grain dispatch containers	Level 1	4	Reregistered
Core	8180 Deplete grain bin	Level 1	2	Reregistered
Core	8182 Care for handtools, utensils and protective equipment	Level 1	2	Reregistered
Core	8186 Routine maintenance of technical- and site equipment	Level 1	5	Reregistered
Core	8190 Introduction to grain handling industry	Level 1	4	Reregistered
Core	12511 Apply quality principles in everyday cleaning tasks	Level 1	4	Reregistered
Core	12512 Practice environmental awareness	Level 1	4	Reregistered
Core	12513 Plan and manage time in the workplace	Level 1	4	Reregistered
Core	15092 Plan and manage personal finances	Level 1	5	Reregistered
Core	113966 Identify security, safety and environmental risks in the local environment	Level 1	6	Reregistered
Core	8177 Apply grain storage hygiene	Level 2	4	Reregistered
Core	8494 Demonstrate an understanding of HIV/AIDS and its implications	Level 2	4	Reregistered
Core	8618 Organise oneself in the workplace	Level 2	3	Reregistered
Elective	8179 Repair bags and tarpaulins	Level 1	3	Reregistered
Elective	8184 Collect a representative groundnut sample	Level 1	2	Reregistered
Elective	8185 Prepare unshelled groundnut sample for grading	Level 1	3	Reregistered
Elective	12620 Apply basic safety principles in the context of conservation	Level 1	3	Reregistered
Elective	8420 Operate in a team	Level 2	4	Reregistered
Elective	116177 Operate a tractor	Level 2	6	Registered
Fundamental	7447 Working with numbers in various contexts	Level 1	6	Reregistered
Fundamental	7449 Critically analyse how mathematics is used in social, political and economic relations	Level 1	2	Reregistered
Fundamental	7451 Collect, analyse, use and communicate numerical data	Level 1	2	Reregistered
Fundamental	7461 Use maps to access and communicate information concerning routes, location and direction	Level 1	1	Reregistered
Fundamental	7463 Describe and represent objects and the environment in terms of shape, space, time and motion	Level 1	2	Reregistered
Fundamental	7464 Analyse cultural products and processes as representations of shape, space and time	Level 1	2	Reregistered
Fundamental	14084 Demonstrate an understanding of and use the numbering system	Level 1	1	Reregistered
Fundamental	119635 Engage in a range of speaking/signing and listening interactions for a variety of purposes	Level 1	6	Registered
Fundamental	119636 Write/Sign for a variety of different purposes	Level 1	6	Registered
Fundamental	119640 Read/view and respond to a range of text types	Level 1	6	Registered
Fundamental	119641 Identify and respond to selected literary texts	Level 1	5	Registered

No. 1143

17 November 2006

**SOUTH AFRICAN QUALIFICATIONS AUTHORITY (SAQA)**

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Secondary Agriculture: Processing

Registered by Organising Field 01, Agriculture and Nature Conservation, publishes the following unit standards for public comment.

This notice contains the titles, fields, sub-fields, NQF levels, credits, and purpose of the unit standards. The unit standards can be accessed via the SAQA web-site at www.saqa.org.za. Copies may also be obtained from the Directorate of Standards Setting and Development at the SAQA offices, SAQA House, 1067 Arcadia Street, Hatfield, Pretoria.

Comment on the qualification should reach SAQA at the address ***below and no later than 16 December 2006***. All correspondence should be marked **Standards Setting – SGB for Secondary Agriculture: Processing** and addressed to

The Director: Standards Setting and Development
SAQA
Attention: Mr. D. Mphuthing
Postnet Suite 248
Private Bag X06
Waterkloof
0145
or faxed to 012 – 431-5144
e-mail: dmphuthing@saqa.co.za

DR. S. BHIKHA
DIRECTOR: STANDARDS SETTING AND DEVELOPMENT



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

1

Control health and nuisance pests in commercial, industrial and domestic environments

SAQA US ID	UNIT STANDARD TITLE		
242961	Control health and nuisance pests in commercial, industrial and domestic environments		
SGB NAME	ORGANISING FIELD ID	PROVIDER NAME	
SGB for Secondary Agriculture: Processing	1		
UNIT STANDARD TYPE	ORGANISING FIELD DESCRIPTION	SUBFIELD DESCRIPTION	
Regular	Agriculture and Nature Conservation	Secondary Agriculture	
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	10	Level 2	Regular

SPECIFIC OUTCOME 1

Identify the presence of common health and nuisance pests.

SPECIFIC OUTCOME 2

Prepare to apply pest control measures.

SPECIFIC OUTCOME 3

Conduct health and nuisance pest control procedures.

SPECIFIC OUTCOME 4

Implement safety procedures when carrying out health and nuisance pest control procedures.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

2

Carry out pest control operations

SAQA US ID	UNIT STANDARD TITLE		
242962	Carry out pest control operations		
SGB NAME	ORGANISING FIELD ID	PROVIDER NAME	
SGB for Secondary Agriculture: Processing	1		
UNIT STANDARD TYPE	ORGANISING FIELD DESCRIPTION	SUBFIELD DESCRIPTION	
Regular	Agriculture and Nature Conservation	Secondary Agriculture	
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	10	Level 1	Regular

SPECIFIC OUTCOME 1

Demonstrate an understanding of the concept of integrated pest management.

SPECIFIC OUTCOME 2

Demonstrate an understanding of the health and safety risks associated with pest control chemicals.

SPECIFIC OUTCOME 3

Prepare to control pests.

SPECIFIC OUTCOME 4

Prepare the pest control worksite.

SPECIFIC OUTCOME 5

Apply pest control chemicals.

SPECIFIC OUTCOME 6

Perform end of task duties.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

3

Control subterranean termites in structures

SAQA US ID	UNIT STANDARD TITLE		
242964	Control subterranean termites in structures		
SGB NAME	ORGANISING FIELD ID	PROVIDER NAME	
SGB for Secondary Agriculture: Processing	1		
UNIT STANDARD TYPE	ORGANISING FIELD DESCRIPTION	SUBFIELD DESCRIPTION	
Regular	Agriculture and Nature Conservation	Secondary Agriculture	
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	10	Level 2	Regular

SPECIFIC OUTCOME 1

Identify the presence of subterranean termites in structures.

SPECIFIC OUTCOME 2

Prepare to apply pest control measures to subterranean termites.

SPECIFIC OUTCOME 3

Conduct subterranean termite control procedures according to legislative and operational requirements.

SPECIFIC OUTCOME 4

Implement safety procedures when carrying out subterranean termite control procedures.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

4

Preserve timber in structures

SAQA US ID	UNIT STANDARD TITLE		
242965	Preserve timber in structures		
SGB NAME	ORGANISING FIELD ID	PROVIDER NAME	
SGB for Secondary Agriculture: Processing	1		
UNIT STANDARD TYPE	ORGANISING FIELD DESCRIPTION	SUBFIELD DESCRIPTION	
Regular	Agriculture and Nature Conservation	Secondary Agriculture	
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	8	Level 2	Regular

SPECIFIC OUTCOME 1

Demonstrate an understanding of timber infested by wood destroying organisms.

SPECIFIC OUTCOME 2

Mix and prepare chemicals, as per instructions of the on-site Pest Control Operator, in order to carry out successful treatment.

SPECIFIC OUTCOME 3

Prepare for timber preservation and wood treatment procedures.

SPECIFIC OUTCOME 4

Conduct timber preservation procedures according to legislative and operational requirements.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

5

Inspect, treat and control a range of pests in domestic, commercial and industrial environments

SAQA US ID	UNIT STANDARD TITLE		
242966	Inspect, treat and control a range of pests in domestic, commercial and industrial environments		
SGB NAME	ORGANISING FIELD ID	PROVIDER NAME	
SGB for Secondary Agriculture: Processing	1		
UNIT STANDARD TYPE	ORGANISING FIELD DESCRIPTION	SUBFIELD DESCRIPTION	
Regular	Agriculture and Nature Conservation	Secondary Agriculture	
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	7	Level 2	Regular

SPECIFIC OUTCOME 1

Inspect environments for evidence of common pests.

SPECIFIC OUTCOME 2

Mix and prepare pesticides, as per instructions of the on-site Pest Control Operator, in order to carry out successful treatment.

SPECIFIC OUTCOME 3

Prepare for pesticide application.

SPECIFIC OUTCOME 4

Use pesticide application, safety and protective equipment to ensure effective treatment and control of common pests.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

6

Classify pesticides in terms of hazards and safety considerations

SAQA US ID	UNIT STANDARD TITLE		
242967	Classify pesticides in terms of hazards and safety considerations		
SGB NAME		ORGANISING FIELD ID	PROVIDER NAME
SGB for Secondary Agriculture: Processing		1	
UNIT STANDARD TYPE		ORGANISING FIELD DESCRIPTION	SUBFIELD DESCRIPTION
Regular		Agriculture and Nature Conservation	Secondary Agriculture
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	8	Level 1	Regular

SPECIFIC OUTCOME 1

Demonstrate an understanding of the classification of pesticides.

SPECIFIC OUTCOME 2

Demonstrate an understanding of pictograms on colour codes on pesticide labels.

SPECIFIC OUTCOME 3

Demonstrate an understanding of the hazards and precautions printed on labels of pesticide containers.

SPECIFIC OUTCOME 4

Demonstrate an understanding of the formulations of pesticides.

SPECIFIC OUTCOME 5

Demonstrate an understanding of toxicity versus hazardousness in relation to active ingredients.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

7

Identify a range of pests in domestic, commercial and industrial environments

SAQA US ID	UNIT STANDARD TITLE		
242968	Identify a range of pests in domestic, commercial and industrial environments		
SGB NAME	ORGANISING FIELD ID	PROVIDER NAME	
SGB for Secondary Agriculture: Processing	1		
UNIT STANDARD TYPE	ORGANISING FIELD DESCRIPTION	SUBFIELD DESCRIPTION	
Regular	Agriculture and Nature Conservation	Secondary Agriculture	
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	8	Level 1	Regular

SPECIFIC OUTCOME 1

Identify pests by their common names.

SPECIFIC OUTCOME 2

Demonstrate knowledge of the biology of common pests.

SPECIFIC OUTCOME 3

Demonstrate an understanding of the behaviour of common pests.

No. 1144

17 November 2006

**SOUTH AFRICAN QUALIFICATIONS AUTHORITY (SAQA)**

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Comment on the qualification should reach SAQA at the address ***below and no later than 16 December 2006***. All correspondence should be marked **Standards Setting – SGB for Secondary Agriculture: Processing** and addressed to

The Director: Standards Setting and Development
SAQA
Attention: Mr. D. Mphuthing
Postnet Suite 248
Private Bag X06
Waterkloof
0145
or faxed to 012 – 431-5144
e-mail: dmphuthing@saqa.co.za

DR. S. BHIKHA
DIRECTOR: STANDARDS SETTING AND DEVELOPMENT



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

1

Monitor and control hygiene practices in grain storage

SAQA US ID	UNIT STANDARD TITLE		
242969	Monitor and control hygiene practices in grain storage		
SGB NAME	ORGANISING FIELD ID	PROVIDER NAME	
SGB for Secondary Agriculture: Processing	1		
UNIT STANDARD TYPE	ORGANISING FIELD DESCRIPTION	SUBFIELD DESCRIPTION	
Regular	Agriculture and Nature Conservation	Secondary Agriculture	
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	4	Level 4	Regular

SPECIFIC OUTCOME 1

Demonstrate knowledge of the types of contamination and the causative agents that can occur in stored grain.

SPECIFIC OUTCOME 2

Monitor and control the moisture content of stored grain.

SPECIFIC OUTCOME 3

Monitor and control fungal and bacterial contamination of stored grain.

SPECIFIC OUTCOME 4

Monitor and administer pest control in stored grain.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

2

Implement good manufacturing practices in food processing

SAQA US ID	UNIT STANDARD TITLE		
242970	Implement good manufacturing practices in food processing		
SGB NAME	ORGANISING FIELD ID	PROVIDER NAME	
SGB for Secondary Agriculture: Processing	1		
UNIT STANDARD TYPE	ORGANISING FIELD DESCRIPTION	SUBFIELD DESCRIPTION	
Regular	Agriculture and Nature Conservation	Secondary Agriculture	
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	10	Level 4	Regular

SPECIFIC OUTCOME 1

Demonstrate an understanding of the relationship between quality management systems and good manufacturing practices.

SPECIFIC OUTCOME 2

Demonstrate an understanding of the related aspects of good manufacturing practices.

SPECIFIC OUTCOME 3

Demonstrate an understanding of the policies and procedures for the maintenance of a GMP program.

SPECIFIC OUTCOME 4

Monitor compliance to good manufacturing practices in the workplace.

SPECIFIC OUTCOME 5

Apply good manufacturing practise in the workplace.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

3

Manage the sampling, measurement, and unloading of bulk grain

SAQA US ID	UNIT STANDARD TITLE		
242971	Manage the sampling, measurement, and unloading of bulk grain		
SGB NAME	ORGANISING FIELD ID	PROVIDER NAME	
SGB for Secondary Agriculture: Processing	1		
UNIT STANDARD TYPE	ORGANISING FIELD DESCRIPTION	SUBFIELD DESCRIPTION	
Regular	Agriculture and Nature Conservation	Secondary Agriculture	
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	6	Level 4	Regular

SPECIFIC OUTCOME 1

Conduct health and safety inspections for bulk grain intake.

SPECIFIC OUTCOME 2

Manage the collection and grading of representative grain samples.

SPECIFIC OUTCOME 3

Monitor the mass measurement of bulk grain intakes.

SPECIFIC OUTCOME 4

Manage the bulk offloading of grain.

No. 1145

17 November 2006

**SOUTH AFRICAN QUALIFICATIONS AUTHORITY (SAQA)**

In accordance with regulation 24(c) of the National Standards Bodies Regulations of 28 March 1998, the Standards Generating Body (SGB) for

Civil Engineering Construction

Registered by Organising Field 12, Physical Planning and Construction, publishes the following unit standards for public comment.

This notice contains the titles, fields, sub-fields, NQF levels, credits, and purpose of the unit standards. The full unit standards can be accessed via the SAQA web-site at www.saga.org.za. Copies may also be obtained from the Directorate of Standards Setting and Development at the SAQA offices, SAQA House, 1067 Arcadia Street, Hatfield.

Comment on the qualification and unit standards should reach SAQA at the address ***below and no later than 16 December 2006***. All correspondence should be marked **Standards Setting – SGB Civil Engineering Construction** and addressed to

The Director: Standards Setting and Development
SAQA

Attention: Mr. D Mphuthing

Postnet Suite 248

Private Bag X06

Waterkloof

0145

or faxed to 012 – 431-5144

e-mail: dmphuthing@saga.org.za

DR. S. BHIKHA

DIRECTOR: STANDARDS SETTING AND DEVELOPMENT



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

1

Inspect access scaffolding after erection, alteration/repositioning and before dismantling

SAQA US ID	UNIT STANDARD TITLE		
243035	Inspect access scaffolding after erection, alteration/repositioning and before dismantling		
SGB NAME	ORGANISING FIELD ID	PROVIDER NAME	
SGB Civil Engineering Construction	12		
UNIT STANDARD TYPE	ORGANISING FIELD DESCRIPTION	SUBFIELD DESCRIPTION	
Regular	Physical Planning and Construction	Civil Engineering Construction	
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	6	Level 4	Regular

SPECIFIC OUTCOME 1

Demonstrate knowledge and understanding of different types of access scaffolding, applications, limitations, design and compliance.

SPECIFIC OUTCOME 2

Demonstrate knowledge and understanding of the role and responsibilities of the inspector.

SPECIFIC OUTCOME 3

Read and interpret drawings, requirements and specifications.

SPECIFIC OUTCOME 4

Inspect and handover access scaffolding.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

2

Lead a crew as an access scaffold erector to erect, alter/reposition and dismantle access scaffolding

SAQA US ID	UNIT STANDARD TITLE		
243036	Lead a crew as an access scaffold erector to erect, alter/reposition and dismantle access scaffolding		
SGB NAME	ORGANISING FIELD ID	PROVIDER NAME	
SGB Civil Engineering Construction	12		
UNIT STANDARD TYPE	ORGANISING FIELD DESCRIPTION	SUBFIELD DESCRIPTION	
Regular	Physical Planning and Construction	Civil Engineering Construction	
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	13	Level 2	Regular

SPECIFIC OUTCOME 1

Demonstrate knowledge and understanding of different types of access scaffolding, applications, limitations and basic drawings and sketches design.

SPECIFIC OUTCOME 2

Read and interpret drawings, requirements and specifications.

SPECIFIC OUTCOME 3

Plan resources for erecting, altering/repositioning access scaffolding.

SPECIFIC OUTCOME 4

Execute access scaffolding operations.

SPECIFIC OUTCOME 5

Execute dismantling and site clearance procedures.

No. 1146

17 November 2006

Established in terms of Act 58 of 1995**SOUTH AFRICAN QUALIFICATIONS AUTHORITY (SAQA)**

In accordance with Regulation 24(c) of the National Standards Bodies Regulations of 28 March 1998, the Standards Generating Body (SGB) for

Transport and Logistics Operations

registered by NSB 11, Services, publishes the following qualification and unit standards for public comment.

This notice contains the titles, fields, sub-fields, NQF levels, credits, and purpose of the qualification and unit standards. The qualification and unit standards can be accessed via the SAQA web-site at www.saga.org.za. Copies may also be obtained from the Directorate of Standards Setting and Development at the SAQA offices, SAQA House, 1067 Arcadia Street, Hatfield.

Comment on the qualifications and unit standards should reach SAQA at the address ***below and no later than 16 December 2006***. All correspondence should be marked **Standards Setting – SGB for Transport and Logistics Operations** and addressed to

The Director: Standards Setting and Development
SAQA

Attention: Mr. D Mphuthing

Postnet Suite 248

Private Bag X06

Waterkloof

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or faxed to 012 – 431 5144

e-mail: dmphuthing@saga.org.za

S BHIKHA

DIRECTOR: STANDARDS SETTING AND DEVELOPMENT



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

QUALIFICATION:

National Certificate: Freight Handling

SAQA QUAL ID		QUALIFICATION TITLE	
57831		National Certificate: Freight Handling	
SGB NAME		ORGANISING FIELD ID	PROVIDER NAME
SGB Transport and Logistics Operations		11	
QUAL TYPE		ORGANISING FIELD DESCRIPTION	SUBFIELD
National Certificate		Services	Transport, Operations and Logistics
ABET BAND	MINIMUM CREDITS	NQF LEVEL	QUALIFICATION CLASS
Undefined	128	Level 3	Regular-Unit Stds Based

PURPOSE AND RATIONALE OF THE QUALIFICATION**Purpose:**

The safe handling of freight is dependant upon the applicable people complying with the relevant procedures and applying the necessary skills to their handling. This Qualification, therefore, is aimed at providing learners in the Freight sector with:

- > An integrated practical and theoretical grounding in Freight Handling.
- > The ability to work more effectively with others.
- > The skills necessary to maintain and enhance the level of service and quality of service expected by customers.
- > An awareness and understanding of key business principles that lead to transformation, transferability, economic growth and social development in the freight handling industry.

The key areas of specialisation identified within the Freight Handling Industry are as follows:

- > Warehousing and Distribution.
- > Port Operations.
- > Stevedoring.
- > Courier Operations.
- > Bulk Handling.
- > Airfreight.
- > Forwarding and Clearing.

Learners completing this Qualification, in whatever area of specialization selected, will be able to demonstrate the ability to consider a range of options related to their chosen field in order to make decisions and improve performance around, inter alia, freight handling administration, planning; goods handling, storage, transport planning, and basic freight handling equipment maintenance.

Rationale:

People involved in freight handling play a key role in the movement of goods since they represent the physical link that ensures that the freight is efficiently and safely handled. The required knowledge and skills can be used in many other goods handling environments or equally as well in a full warehousing environment. On-the-job experience can progressively lead to positions of more responsibility in the safe handling of goods and freight.

The majority of learners for this Qualification are likely to be either unemployed persons wishing to enter the industry, or persons currently working in the greater freight handling sector that wish to improve their skills and enhance their own career path opportunities.

The Qualification will provide learners with the opportunity to acquire the essential knowledge needed to further their studies in differing specialist areas within the transport sector of the South African economy.

This Qualification reflects workplace-based needs in the wider Freight Handling Industry, both now and for the future. Freight Handling is diverse in its nature, so a fairly wide range of competencies are required by employees. The Qualification aims to provide the foundational and initial skills required for an individual in the industry to handle freight successfully; be an effective team member and undertake those tasks required to contribute to the effective processing of freight.

RECOGNIZE PREVIOUS LEARNING?

Y

LEARNING ASSUMED TO BE IN PLACE

It is assumed that learners accessing this Qualification are competent in:

- > Communication at NQF level 2 or equivalent.
- > Mathematical Literacy at NQF level 2 or equivalent.

Recognition of prior learning (RPL):

Historically within the Freight Handling Industry, most employees have experience, but no formal underpinning knowledge. It is therefore essential to recognise prior learning and the application in the work place. Therefore the assessment processes will recognise experience and theoretical knowledge. Portfolios of evidence will be important contributions to the assessment process.

All Recognition of Prior Learning is subject to quality assurance by the relevant accredited Education, Training, Quality, and Assurance Body.

Access to the Qualification:

This Qualification is open to everyone. However, access to certain unit standards (e.g. Operate defined purpose lift trucks) within the Qualification is limited where legislated and where physical and psychomotor requirements are specified in that particular unit standard. In some cases a license is required prior to commencement of learning or operation.

It is advisable that learners should already have addressed the areas reflected under "Learning Assumed to be in Place" before embarking on learning towards this Qualification.

QUALIFICATION RULES

The Qualification is made up of a combination of learning outcomes from Fundamental, Core and Elective Components, totalling 128 credits.

- > All 36 credits allocated for Fundamental are compulsory.
- > All 59 credits for Core are compulsory.
- > A minimum of 33 credits must be selected by the learner from the 186 credits available in the Electives.

Learners may also select other registered Unit Standards not listed in the Elective Component to obtain the minimum number of credits, provided approval has been obtained from the relevant ETQA.

EXIT LEVEL OUTCOMES

1. Understand the principles of the freight handling business in South Africa.
2. Understand the composition of the supply chain in the transport industry.
3. Understand legislated and company-required health, safety, environmental and security practices.
4. Act responsibly when handling freight.

ASSOCIATED ASSESSMENT CRITERIA

1.
 - > The different modes of transport and transport services offered in South Africa are explained relevant to the area of specialization.
 - > The different types of businesses and their legal implications are explained with examples.
 - > The way in which the principles are applied is described with examples.

2.

- > The aim of the supply chain is explained according to the selected specialist stream.
 - > The role and function of the organisation within its supply chain(s) is explained according to international principles.
- 3.
- > The requirements of the Occupational Health and Safety Act and in-house policies and practices concerning health and safety in the working environment are described and explained according to requirements.
 - > The requirements of industry specific environmental legislation policies and practices are explained with examples.
 - > The impact of HIV/AIDS and the handling of persons with HIV/AIDS are explained with examples.
 - > The effects of poor hygiene and health on the organisation and the country are explained using examples.
- 4.
- > Procedure for safe packing, handling and securing of freight are applied in accordance with standard operating procedures.
 - > Operating practices are complied with in the handling of freight according to legislation and regulations.
 - > Freight handling equipment is used and operated in accordance with safe and legislated requirements.

Integrated assessment:

Development of the competencies may be through a combination of informal and formal learning, self-learning, training programmes and work-based application. Providers should conduct diagnostic and formative assessment. Formative, continuous and diagnostic assessments should also take place in the work place. The learner should be able to assess him or herself and determine readiness for a summative assessment against this Qualification.

Learning, teaching and assessment are inextricably linked. Whenever possible, the assessment of knowledge, skills, attitudes and values shown in the unit standards should be integrated.

Assessment of communication, language, literacy and numeracy should be conducted in conjunction with other aspects and should use authentic Freight Handling contexts wherever possible.

A variety of methods must be used in assessment and tools and activities must be appropriate to the context in which the learner is working. Where it is not possible to assess the learner in the workplace or on-the-job, simulations, case studies, role-plays and other similar techniques should be used to provide a context appropriate to the assessment. The term 'Integrated Assessment' implies that theoretical and practical components should be assessed together.

Assessment should ensure that all Specific Outcomes, Embedded Knowledge and Critical Cross-Field Outcomes are evaluated. The assessment of the Critical Cross-Field Outcomes should be integrated with the assessment of Specific Outcomes and Embedded Knowledge.

INTERNATIONAL COMPARABILITY

The Freight Handling industry is an area that is conducted on a global basis and therefore has globally recognised legislation, best practices, standards and training. The countries used in this comparison have the legislation, best practice and standards incorporated within their programmes and qualifications. This Freight Handling Qualification used these as a comparison to ensure that it meets both the international and local best practice requirements. The countries most recognised as leaders in freight handling are the United States of America, the United Kingdom and New Zealand.

Below are listed the Qualifications, Courses and Standards which were used in the comparability. Because the carriage of specific goods are regulated international agreements and technological advances, most areas were found to be of a similar nature, with some differences because of domestic regulations and conditions.

New Zealand Unit Standards:

Level 2 Unit Standards:

- > Demonstrate knowledge of transport industry sectors (ID 13230, 2 Credits).

Level 3 Unit Standards:

- > Operate a powered industrial lift truck (PILT) fitted with attachments on a worksite (ID 10852 - 3 Credits).
- > Operate a powered industrial lift truck fitted with forks (forklift) (ID 10851, 7 Credits).

- > Demonstrate knowledge of the international freight forwarding industry (ID 21803 - 6 Credits).
- > Prepare for freight forwarding of dangerous goods by sea (ID 21809, 3 Credits).
- > Process import documentation that governs the carriage of international goods (ID 21806, 5 Credits).
- > Select, cost, and recommend an international transport service and route for given consignments (ID 21805, 6 Credits).
- > Select a rail transport unit for a given consignment and route (ID 13233, 2 Credits).
- > Select an aircraft type for a given consignment and route (ID 13232, 2 Credits).

Level 4 Unit Standards:

- > Prepare for freight forwarding of dangerous goods by air (ID 21810, 6 Credits).
- > Process export documentation that governs the carriage of international goods by air (ID 21808, 7 Credits).
- > Process export documentation that governs the carriage of international goods by sea (ID 21807, 5 Credits).
- > Cost distribution centre activities in a logistics operation (ID 19017, 4 Credits).
- > Demonstrate knowledge of inventory management in a logistics operation (ID 19018, 12 Credits).
- > Determine mode of transport for a given consignment (ID 19033, 4 Credits).

Research showed a few similar unit standards do exist. However, it was difficult to benchmark with the New Zealand approach, which did not examine the different areas of specialization under one umbrella Qualification, but under separate distinctive Qualifications for different areas of specialisation.

The Irish International Freight Association

Programme Content covers topics such as:

- > General knowledge of the Industry.
- > Sea Transport.
- > Road Transport.
- > Air Transport.
- > Customs Procedures.
- > Warehousing/Logistics.
- > Transport Insurance.
- > Manual Handling Training (City and Guilds).

The Irish International Freight Association (IIFA) Traineeship in Freight Forwarding programme that culminates in a: National Skills Certificate (NSC) and an internationally recognised International Federation of Freight Forwarders Association (FIATA) and International Air Transport Association (IATA) certification. Once again similarities were found as well minor differences that relate to local regulations and requirements.

Other training programmes that were referred to are found in England and America. These programmes include:

England

Civil Aviation Authority:

- > Training for Shippers.
- > Training for Freight Forwarders.
- > Training for Handling Agents.

America

Transport Training International:

- > Freight Broker Training School.
- > Introduction to the Freight Broker Industry.
- > Owner Operator Academy.
- > Freight Broker Authority.
- > Motor Carrier Authority.
- > Hazardous Material Permits.

In both cases above the training courses showed very similar content with the exception of the USA which covered the transportation of motor vehicles in much more detail. It also had the subject of Freight Handling

Brokers, which are not covered at all in the South African Qualification.

Based on the above exercises it was very evident that many elements in all those areas covered by the comparability study showed the South African Qualification compared well with its international counterparts. As already stated the major differences come from local legislative issues and in the United States of America the training of Freight Handling Brokers.

ARTICULATION OPTIONS

This Qualification provides the learner with the flexibility to pursue different careers within the transport industry and other sectors. The level of flexibility within the range of electives allows the individual to pursue studies across the greater transport industry.

Horizontal articulation possible with:

- > National Certificate: Professional Driving, NQF Level 3, NLRD 50285
- > National Certificate: Rail Operation, NQF Level 3, NLRD 23893
- > National Certificate: Road Transport, NQF Level 3, NLRD 48437
- > National Certificate: Freight Forwarding, NQF Level 3, NLRD 22442
- > National Certificate: Customs Clearing, NQF Level 3, NLRD 22440

Vertical progression is possible with:

- > FET Certificate: Road Transport Management in the Public Sector, NQF Level 4, NLRD 49489
- > FET Certificate: Road Transport Supervision, NQF Level 4, NLRD 48439
- > FET Certificate: Shipping, NQF Level 4, NLRD 49155
- > National Certificate: Rail Operations, NQF Level 4, NLRD 14498
- > National Certificate: Customs Clearing, NQF Level 4, NLRD 44221
- > National Certificate: Freight Forwarding, NQF Level 4, NLRD 22443

MODERATION OPTIONS

> Anyone assessing a learner or moderating the assessment of a learner against this Qualification must register as an assessor with the relevant Education and Training Quality Assurance (ETQA) Body.

> Any institution offering learning that will enable the achievement of this Qualification must be accredited as a provider with the relevant ETQA.

> Assessment and moderation of assessment will be overseen by the relevant ETQA according to the ETQA's policies and guidelines for assessment and moderation; in terms of agreements reached around assessment and moderation between ETQA's (including professional bodies); and in terms of the moderation guideline detailed immediately below.

> Moderation must include both internal and external moderation of assessments at exit points of the Qualification, unless ETQA policies specify otherwise. Moderation should encompass achievement of the competence described in the Qualification.

CRITERIA FOR THE REGISTRATION OF ASSESSORS

N/A

NOTES

This qualification replaces qualification 14574, "National Certificate: Freight Handling", level 3, 120 credits.

- > An individual selecting any Elective Unit Standard dealing with the operation of machinery and/or equipment must ensure that an appropriate licence is obtained prior to the completion of the Unit Standard.
- > It is required that Learners who access this Qualification build into their learning a theoretical understanding of lifting equipment to give them a greater appreciation of the greater industry and an understanding of the industry as a set of related systems.

UNIT STANDARDS

(Note: A blank space after this line means that the qualification is not based on Unit Standards.)

UNIT STANDARD ID AND TITLE		LEVEL	CREDITS	STATUS
Core	7996 Operating computer systems	Level 3	8	Reregistered

Core	8000 Applying basic business principles	Level 3	9	Reregistered
Core	8016 Maintaining occupational health, safety and general housekeeping	Level 3	8	Reregistered
Core	8021 Taking basic care of freight handling machinery	Level 3	2	Reregistered
Core	8037 Ensuring customer satisfaction and competitive practice	Level 3	2	Reregistered
Core	13915 Demonstrate knowledge and understanding of HIV/AIDS in a workplace, and its effects on a business sub-sector, own organisation and a specific workplace	Level 3	4	Reregistered
Core	242875 Describe basic freight logistic principles	Level 3		Draft - Prep for P Comment
Core	7997 Managing self-development	Level 4	12	Reregistered
Core	8035 Processing and controlling documentation	Level 4	4	Reregistered
Core	110009 Manage administration records	Level 4	4	Registered
Elective	8022 Allocating freight for packaging and grouping	Level 3	6	Reregistered
Elective	8024 Receiving and dispatching freight, and handling freight returns	Level 3	5	Reregistered
Elective	8025 Controlling and locating stock	Level 3	8	Reregistered
Elective	113843 Obtain and communicate road transport operational information	Level 3	10	Registered
Elective	117833 Handle a crime situation	Level 3	6	Registered
Elective	123259 Convey dangerous goods by road	Level 3	4	Registered
Elective	242975 Use gangway communication signals to direct ship cargo lifting appliances	Level 3	4	Draft - Prep for P Comment
Elective	242979 Work with temperature controlled stock	Level 3	4	Draft - Prep for P Comment
Elective	242983 Arrange the distribution of small to medium sized consignments door-to-door	Level 3	6	Draft - Prep for P Comment
Elective	242984 Implement administrative and financial procedures for handling freight	Level 3	10	Draft - Prep for P Comment
Elective	8020 Controlling hazardous/dangerous and dangerous goods	Level 4	4	Reregistered
Elective	8036 Packing, handling and securing freight	Level 4	8	Reregistered
Elective	117668 Demonstrate an understanding of the basics of local and international trade	Level 4	15	Registered
Elective	242662 Apply knowledge of fire exposures in order to manage the potential fire risk	Level 4	3	Recommended
Elective	242973 Understand, interpret and apply ship stowage plan	Level 4	12	Draft - Prep for P Comment
Elective	242980 Understand basic ship design, classification in relation to cargo handling	Level 4	12	Draft - Prep for P Comment
Elective	8041 Managing employee induction	Level 5	10	Reregistered
Fundamental	7456 Use mathematics to investigate and monitor the financial aspects of personal, business and national issues	Level 3	5	Reregistered
Fundamental	9010 Demonstrate an understanding of the use of different number bases and measurement units and an awareness of error in the context of relevant calculations	Level 3	2	Reregistered
Fundamental	9012 Investigate life and work related problems using data and probabilities	Level 3	5	Reregistered
Fundamental	9013 Describe, apply, analyse and calculate shape and motion in 2-and 3-dimensional space in different contexts	Level 3	4	Reregistered
Fundamental	119457 Interpret and use information from texts	Level 3	5	Registered
Fundamental	119465 Write/present/sign texts for a range of communicative contexts	Level 3	5	Registered
Fundamental	119467 Use language and communication in occupational learning programmes	Level 3	5	Registered
Fundamental	119472 Accommodate audience and context needs in oral/signed communication	Level 3	5	Registered



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

1

Describe basic freight logistic principles

SAQA US ID	UNIT STANDARD TITLE		
242875	Describe basic freight logistic principles		
SGB NAME	ORGANISING FIELD ID	PROVIDER NAME	
SGB Transport and Logistics Operations	11		
UNIT STANDARD TYPE	ORGANISING FIELD DESCRIPTION	SUBFIELD DESCRIPTION	
Regular	Services	Transport, Operations and Logistics	
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined		Level 3	Regular

SPECIFIC OUTCOME 1

Identify and explain the functions of different internal departments.

SPECIFIC OUTCOME 2

Describe the principles of supply and demand.

SPECIFIC OUTCOME 3

Demonstrate an understanding of the impact of logistics business impact.

SPECIFIC OUTCOME 4

Demonstrate an understanding of the distribution channel.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

2

Operate advanced defined purpose lift trucks

SAQA US ID	UNIT STANDARD TITLE		
242972	Operate advanced defined purpose lift trucks		
SGB NAME	ORGANISING FIELD ID	PROVIDER NAME	
SGB Transport and Logistics Operations	11		
UNIT STANDARD TYPE	ORGANISING FIELD DESCRIPTION	SUBFIELD DESCRIPTION	
Regular	Services	Transport, Operations and Logistics	
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	7	Level 3	Regular

SPECIFIC OUTCOME 1

Access available emergency support systems and services in case of incidents and accidents.

SPECIFIC OUTCOME 2

Identify and classify freight/loads.

SPECIFIC OUTCOME 3

Handle, load and store freight.

SPECIFIC OUTCOME 4

Achieve maximum work performance of battery powered lifting equipment and attachments.

SPECIFIC OUTCOME 5

Operate equipment.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

3

Understand, interpret and apply ship stowage plan

SAQA US ID	UNIT STANDARD TITLE		
242973	Understand, interpret and apply ship stowage plan		
SGB NAME	ORGANISING FIELD ID	PROVIDER NAME	
SGB Transport and Logistics Operations	11		
UNIT STANDARD TYPE	ORGANISING FIELD DESCRIPTION	SUBFIELD DESCRIPTION	
Regular	Services	Transport, Operations and Logistics	
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	12	Level 4	Regular

SPECIFIC OUTCOME 1

Understand and explain knowledge of cargo types and their specific stowage and lashing requirements.

SPECIFIC OUTCOME 2

Recognise and Interpret abbreviations, colour codes and layout/format used in stowage plans.

SPECIFIC OUTCOME 3

Demonstrate knowledge of, interpret and apply stowage plan information.

SPECIFIC OUTCOME 4

Demonstrate and apply knowledge and understanding of basic dynamic and static stresses due to movement in a seaway with respect to lashing arrangements and cargo location.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

4

Operate counter-balanced lift truck

SAQA US ID	UNIT STANDARD TITLE		
242974	Operate counter-balanced lift truck		
SGB NAME	ORGANISING FIELD ID	PROVIDER NAME	
SGB Transport and Logistics Operations	11		
UNIT STANDARD TYPE	ORGANISING FIELD DESCRIPTION	SUBFIELD DESCRIPTION	
Regular	Services	Transport, Operations and Logistics	
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	7	Level 3	Regular

SPECIFIC OUTCOME 1

Apply the recognised methods for inspecting and recording the operational fitness of all components of the lift truck with reference to safety procedure in the workplace.

SPECIFIC OUTCOME 2

Identify and classify freight/loads taking into account documentation, packaging and labelling associated with the specific freight.

SPECIFIC OUTCOME 3

Handle, load and store freight in accordance with industry standards, environmental requirements, and with due consideration to inter alia the commodities and their properties, storage area and placement of load.

SPECIFIC OUTCOME 4

Achieve maximum work performance of lifting equipment and attachments, by applying knowledge of equipment dimensions, controls, principles of operation and capacities, manufacturing specifications and circumstances in the working environment.

SPECIFIC OUTCOME 5

Operate equipment in accordance with laid down organisational and legislative standards and procedures as well as manufacturer's guidelines.

SPECIFIC OUTCOME 6

Access available emergency support systems and services in case of incidents and accidents.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

5

Use gangway communication signals to direct ship cargo lifting appliances

SAQA US ID	UNIT STANDARD TITLE		
242975	Use gangway communication signals to direct ship cargo lifting appliances		
SGB NAME	ORGANISING FIELD ID	PROVIDER NAME	
SGB Transport and Logistics Operations	11		
UNIT STANDARD TYPE	ORGANISING FIELD DESCRIPTION	SUBFIELD DESCRIPTION	
Regular	Services	Transport, Operations and Logistics	
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	4	Level 3	Regular

SPECIFIC OUTCOME 1

Recognise, interpret and demonstrate approved gangway signals as per SA Ports Cargo Handling Code of Practice.

SPECIFIC OUTCOME 2

Select position and use correct signaling equipment and apply signals according to operational requirements.

SPECIFIC OUTCOME 3

Conduct continuous assessment of lifting gear and safe slinging practices as per industry best practice.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

6

Operate overhead/gantry cranes

SAQA US ID	UNIT STANDARD TITLE		
242976	Operate overhead/gantry cranes		
SGB NAME	ORGANISING FIELD ID	PROVIDER NAME	
SGB Transport and Logistics Operations	11		
UNIT STANDARD TYPE	ORGANISING FIELD DESCRIPTION	SUBFIELD DESCRIPTION	
Regular	Services	Transport, Operations and Logistics	
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	5	Level 2	Regular

SPECIFIC OUTCOME 1

Demonstrate knowledge of the functions of a crane.

SPECIFIC OUTCOME 2

Identify the safety and suitability of the crane type prior to utilisation.

SPECIFIC OUTCOME 3

Inspect and record the operational fitness of the components of a crane.

SPECIFIC OUTCOME 4

Operate an overhead crane in a safe and competent manner.

SPECIFIC OUTCOME 5

Access available support systems and emergency services in case of incidents and accidents.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

7

Operate ship cargo lifting appliances

SAQA US ID	UNIT STANDARD TITLE		
242977	Operate ship cargo lifting appliances		
SGB NAME	ORGANISING FIELD ID	PROVIDER NAME	
SGB Transport and Logistics Operations	11		
UNIT STANDARD TYPE	ORGANISING FIELD DESCRIPTION	SUBFIELD DESCRIPTION	
Regular	Services	Transport, Operations and Logistics	
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	10	Level 3	Regular

SPECIFIC OUTCOME 1

Identify and explain different rig configurations, winch layouts and utilisation.

SPECIFIC OUTCOME 2

Establish safety of lifting appliances in the work environment.

SPECIFIC OUTCOME 3

Ensure lifting appliance is operated within SWL (safe working load) according to rig use.

SPECIFIC OUTCOME 4

Recognise, interpret and adhere to gangway communication signals.

SPECIFIC OUTCOME 5

Operate ship-lifting appliances singly or with other operators on any given rig, in a safe and competent manner.

SPECIFIC OUTCOME 6

Identify and report requirements to alter rig settings as operational conditions change.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

8

Operate truck-mounted cranes

SAQA US ID	UNIT STANDARD TITLE		
242978	Operate truck-mounted cranes		
SGB NAME	ORGANISING FIELD ID	PROVIDER NAME	
SGB Transport and Logistics Operations	11		
UNIT STANDARD TYPE	ORGANISING FIELD DESCRIPTION	SUBFIELD DESCRIPTION	
Regular	Services	Transport, Operations and Logistics	
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	8	Level 3	Regular

SPECIFIC OUTCOME 1

Demonstrate knowledge of the functions of a truck mounted crane.

SPECIFIC OUTCOME 2

Identify the safety and suitability of the crane.

SPECIFIC OUTCOME 3

Inspect and record the operational fitness of the components of the truck and crane.

SPECIFIC OUTCOME 4

Operate a Truck Mounted crane.

SPECIFIC OUTCOME 5

Access available support systems and emergency services in case of incidents and accidents.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

9

Work with temperature controlled stock

SAQA US ID	UNIT STANDARD TITLE		
242979	Work with temperature controlled stock		
SGB NAME	ORGANISING FIELD ID	PROVIDER NAME	
SGB Transport and Logistics Operations	11		
UNIT STANDARD TYPE	ORGANISING FIELD DESCRIPTION	SUBFIELD DESCRIPTION	
Regular	Services	Transport, Operations and Logistics	
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	4	Level 3	Regular

SPECIFIC OUTCOME 1

Identify goods/freight that require special temperature control and storage procedures.

SPECIFIC OUTCOME 2

Monitor temperature with reference to freight integrity.

SPECIFIC OUTCOME 3

Identify and rectify problems with maintaining the correct temperature in a competent manner.

SPECIFIC OUTCOME 4

Identify and implement the correct hygiene and safety measure.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

10

Understand basic ship design, classification in relation to cargo handling

SAQA US ID	UNIT STANDARD TITLE		
242980	Understand basic ship design, classification in relation to cargo handling		
SGB NAME	ORGANISING FIELD ID	PROVIDER NAME	
SGB Transport and Logistics Operations	11		
UNIT STANDARD TYPE	ORGANISING FIELD DESCRIPTION	SUBFIELD DESCRIPTION	
Regular	Services	Transport, Operations and Logistics	
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	12	Level 4	Regular

SPECIFIC OUTCOME 1

Identify and explain knowledge of vessel types and layout, their specific uses and limitations.

SPECIFIC OUTCOME 2

Identify and explain ship's lifting appliances in relation to vessel type and load.

SPECIFIC OUTCOME 3

Understand and explain knowledge of basic ship stability, ship stresses, structural strengths, depreciation and the impact thereof on stowing cargo.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

11

Operate defined purpose lift trucks

SAQA US ID	UNIT STANDARD TITLE		
242981	Operate defined purpose lift trucks		
SGB NAME	ORGANISING FIELD ID	PROVIDER NAME	
SGB Transport and Logistics Operations	11		
UNIT STANDARD TYPE	ORGANISING FIELD DESCRIPTION	SUBFIELD DESCRIPTION	
Regular	Services	Transport, Operations and Logistics	
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	4	Level 2	Regular

SPECIFIC OUTCOME 1

Inspect and record the operational fitness of battery powered lift trucks.

SPECIFIC OUTCOME 2

Identify and classify freight/loads.

SPECIFIC OUTCOME 3

Handle load and store freight.

SPECIFIC OUTCOME 4

Achieve maximum work performance of battery powered lifting equipment and attachments.

SPECIFIC OUTCOME 5

Operate freight equipment.

SPECIFIC OUTCOME 6

Access available emergency support systems and services.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

12

Operate heavy crane

SAQA US ID	UNIT STANDARD TITLE		
242982	Operate heavy crane		
SGB NAME	ORGANISING FIELD ID	PROVIDER NAME	
SGB Transport and Logistics Operations	11		
UNIT STANDARD TYPE	ORGANISING FIELD DESCRIPTION	SUBFIELD DESCRIPTION	
Regular	Services	Transport, Operations and Logistics	
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	14	Level 3	Regular

SPECIFIC OUTCOME 1

Identify the safety and suitability of crane type prior to utilisation thereof, giving consideration to freight characteristics, equipment manufacturers' requirements and environmental conditions.

SPECIFIC OUTCOME 2

Apply the recognised methods for inspecting and recording the operational fitness of all components of the crane with reference to safety procedures in the workplace.

SPECIFIC OUTCOME 3

Operate the heavy crane in a safe and competent manner.

SPECIFIC OUTCOME 4

Access available support systems and emergency services in case of incidents and accidents.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

13

Arrange the distribution of small to medium sized consignments door-to-door

SAQA US ID	UNIT STANDARD TITLE		
242983	Arrange the distribution of small to medium sized consignments door-to-door		
SGB NAME	ORGANISING FIELD ID	PROVIDER NAME	
SGB Transport and Logistics Operations	11		
UNIT STANDARD TYPE	ORGANISING FIELD DESCRIPTION	SUBFIELD DESCRIPTION	
Regular	Services	Transport, Operations and Logistics	
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	6	Level 3	Regular

SPECIFIC OUTCOME 1

Establish appropriate routing for a consignment.

SPECIFIC OUTCOME 2

Select and complete correct documentation for consignments.

SPECIFIC OUTCOME 3

Bag and label consolidation of consignment.

SPECIFIC OUTCOME 4

Lodge courier material with third party carriers and agents.



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

14

Implement administrative and financial procedures for handling freight

SAQA US ID		UNIT STANDARD TITLE	
242984		Implement administrative and financial procedures for handling freight	
SGB NAME		ORGANISING FIELD ID	PROVIDER NAME
SGB Transport and Logistics Operations		11	
UNIT STANDARD TYPE		ORGANISING FIELD DESCRIPTION	SUBFIELD DESCRIPTION
Regular		Services	Transport, Operations and Logistics
ABET BAND	CREDITS	NQF LEVEL	UNIT STANDARD TYPE
Undefined	10	Level 3	Regular

SPECIFIC OUTCOME 1

Apply information contained in tariff guides.

SPECIFIC OUTCOME 2

Generate the relevant documentation for payment received.

SPECIFIC OUTCOME 3

Explain and justify discrepancies in actual payments versus expected payments.

SPECIFIC OUTCOME 4

Generate and implement business solutions, adhering to limitations of authority levels.

SPECIFIC OUTCOME 5

Provide quality customer service to ensure maximum repeat business.