

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: dmpthuthing@saga.co.za

DR. S. BHIKHA
DIRECTOR: STANDARDS SETTING AND DEVELOPMENT



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

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 qualifications 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:

- > PRMPMOIA Respond to customer inquiry.
- > PRMPM05A Modify environment to manage pests.
- > PRMPM06A Apply pesticides to manage pests.
- > PRMPM05A 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:

- > PRMPMOIA 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.
- > PRMPM05A 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 ETQAs 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.)