

No. 1158

14 December 2007

**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

**Nature Conservation**

registered by Organising Field 01, Agriculture and Nature Conservation, 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 full Qualification and Unit Standards can be accessed via the SAQA web-site at [www.saqqa.org.za](http://www.saqqa.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 and Unit Standards should reach SAQA at the address below and **no later than 28 January 2008**. All correspondence should be marked **Standards Setting – Nature Conservation** and addressed to

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**DR. S. BHIKHA**  
**DIRECTOR: STANDARDS SETTING AND DEVELOPMENT**



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**QUALIFICATION:****National Certificate: Nature Conservation: Resource Guardianship**

<b>SAQA QUAL ID</b>	<b>QUALIFICATION TITLE</b>		
59389	National Certificate: Nature Conservation: Resource Guardianship		
<b>ORIGINATOR</b>		<b>PROVIDER</b>	
SGB Nature Conservation			
<b>QUALIFICATION TYPE</b>	<b>FIELD</b>	<b>SUBFIELD</b>	
National Certificate	1 - Agriculture and Nature Conservation	Nature Conservation	
<b>ABET BAND</b>	<b>MINIMUM CREDITS</b>	<b>NQF LEVEL</b>	<b>QUAL CLASS</b>
Undefined	121	Level 2	Regular-Unit Stds Based

**PURPOSE AND RATIONALE OF THE QUALIFICATION**

## Purpose:

The National Certificate: Nature Conservation: Guardianship, addresses skills and competencies enabling entry level employment and positions qualifying learners to access opportunities for further development and training in the Nature Conservation environment.

After successful completion of this qualification, learners will be able to:

- Understand the Nature Conservation Sector.
- Operate in the Nature Conservation environment.
- Contribute to the maintaining of area integrity through:
  - Operational involvement in law enforcement.
  - Operational involvement in resources management.
  - Contributing to Physical infrastructure maintenance.

## Rationale:

The Nature Conservation Sector is a highly regulated environment tasked with the protection and utilization of our Natural resources and heritage whilst ensuring, controlling and managing access to this environment by both national and international tourists.

The utilization of our natural resources protected and managed by Nature Conservation, is a main tourism attraction and thus contributes significantly to the country's foreign exchange earnings and the marketing of South Africa as a tourism destination.

A variety of organizations contributes to and operates within this sector, including:

- The Department of Environmental Affairs and Tourism (DEAT).
- Provincial Local Conservation Authorities including conservatories and NGO's.
- National Parks including SANPARKS and KZNWildlife.
- Private Game Nature Reserves including a vast range of private game lodges.

The sector, by its very nature, requires the operational implementation of the legislative frameworks protecting and guarding our natural heritage and this takes place in three main operational focus areas contributing to what is commonly referred to as area integrity, namely:

- Enforcement of legal requirements as it relates to the protection of endangered species, and guarding against and taking the necessary action in instances of poaching to name but two important components of this focus area.
- Resource management in terms of fauna, flora and biodiversity, incorporating components of natural/environmental infrastructure maintenance as it relates to for example, the protection of indigenous fauna, removal of invader plant species and managing of soil erosion.
- Physical infrastructure maintenance as it relates to the infrastructure necessary to maintain the operational environment as well as infrastructure used from a tourism perspective within the operational environment.

These three main operational focus areas reflected in the qualification, define the main operational and vocational objectives across the envisaged career path resulting from this qualification.

The skills and competencies gained in the entry-level qualification enables the qualifying learner to take up the role of conservation resources guardianship whilst ensuring that the understanding gained of the environment as well as conservation ethics is applied in the sector in one of the following entry- level positions:

- Game scout.
- Game ranger.
- Field ranger.
- Conservation worker.

The acquiring of recognized skills and abilities is therefore required by the sector in order to meet legislative and operational requirements and to remain profitable in order to increase growth and job opportunities whilst the main objective of the protection and effective utilization of our natural resources are maintained at operational level.

The envisaged entry-level positions associated with the qualification forms the first line of defense at operational level, in that the nature of these positions translates into the point of initial contact in terms of natural and unnatural threats to the environment. The qualification enables the necessary skills and knowledge required to make a valuable contribution in terms of the operational focus of learners entering this sector.

Individuals operating on grass-root level in the Nature Conservation environment furthermore play a key role in liaison with communities living in or adjacent Nature Conservation areas. They are thus also often the first line of contact in terms of advising communities on what constitutes legal and illegal acts if carried out within a conserved area.

These individuals play an integral part in the process of community involvement, capacity building and enabling social and economic transformation from the perspective of the addressing of enabling community participation in the benefits and sustainable use of our natural resources from which these communities were previously excluded as stakeholders in this environment, the latter once again taking place within the framework of the identified three focus areas.

#### **RECOGNIZE PREVIOUS LEARNING?**

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#### **LEARNING ASSUMED IN PLACE**

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

- Communication at NQF Level 1.

- Mathematical Literacy at NQF Level 1.

#### Recognition of Prior Learning (RPL):

This Qualification can be achieved wholly or in part through the Recognition of Prior Learning and the Qualification may be granted to learners who have acquired the skills and knowledge without attending formal courses providing they can demonstrate competence in the outcomes of the individual Unit Standards as required by the Fundamental, Core and Elective areas stipulated in the Qualification and by the Exit Level Outcomes.

An RPL process may also be used to credit learners with Unit Standards in which they have developed the necessary competency as a result of workplace and experiential learning.

RPL may also be used by learners, who are not in possession of a GETC or equivalent qualification, to gain access to the Qualification.

Learners submitting themselves for RPL should be thoroughly briefed prior to the assessment, and may be required to submit a Portfolio of Evidence in the prescribed format to be assessed for formal recognition. While this is primarily a workplace-based Qualification, evidence from other areas of endeavour may be introduced if pertinent to any of the exit level outcomes.

#### Access to the Qualification:

There is open access to any learner who complies with the learning assumed to be in place or equivalent competencies. It is required that learners are able to arrange for assessment in a Nature Conservation environment.

#### **QUALIFICATION RULES**

This qualification is made up of Fundamental, Core and Elective unit standards and a minimum of 121 Credits is required to complete the qualification.

#### Fundamental component:

- All unit standards totaling 35 credits are compulsory.

#### Core component:

- All unit standards totaling 70 credits are compulsory.

#### Elective component:

- A minimum of 15 credits from the Elective component is required.

#### **EXIT LEVEL OUTCOMES**

1. Demonstrate an understanding of the Nature Conservation environment.
2. Operate in the Nature Conservation environment.
3. Perform Conservation Resources Guardianship according to operational requirements.

#### Critical Cross-Field Outcomes:

The qualification addresses the following Critical Cross-Field Outcomes as embedded in the Exit Level Outcomes and Associated Assessment Criteria of the qualification:

#### Communicate effectively:

Source: National Learners' Records Database

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- Effective communication is enabled through the maintaining of relevant communication as per organisational requirements.
- Evident in Exit Level Outcome 2, Assessment Criteria 3.

Identify and solve problems:

- Problems are identified and solved in the application of Nature Conservation Guardianship as it relates to the maintaining of area integrity.
- Evident in Exit Level Outcome 3, Assessment Criteria 1, 2 and 3.

Collect, analyse, organise, and critically evaluate information:

- Information is collected analysed, organized and evaluated in the performing of Conservation Resources Guardianship in the operational environment.
- Evident in Exit Level Outcome 3, Assessment Criteria 1, 2 and 3.

Understand the world as a set of related systems:

- The world is understood as a set of related systems as the Nature Conservation sector and operational environment is investigated.
- Evident in Exit Level Outcome 2, Assessment criteria 1,2,3 and 4 as well as Exit Level outcome 3, Assessment criteria 1 and 2.

Organise and manage own activities:

- Own activities are managed and organised in the performance of Conservation Resources Guardianship activities in the operational environment.
- Evident in Exit Level Outcome 3, Assessment Criteria 1, 2, and 3.

Work in a team:

- Teamwork is supported in the operational environment and the execution of Conservation Resources Guardianship responsibilities.
- Evident in Exit Level Outcome 3, Assessment Criteria 3.

Maintain effective working relationships:

- The maintaining of effective working relationships is supported through the requirements of the operational environment.
- Evident in Exit Level Outcome 2, Assessment Criteria 1,2,3,4,and 5.

Use Science and technology:

- The use of Science and Technology is supported by the use of computer literacy in the operational environment as well as the electronic applications used for the gathering and reporting of information in the performance of Conservation Resources Guardianship requirements in the workplace.
- Evident in Exit Level outcome 2 and 3.

### **ASSOCIATED ASSESSMENT CRITERIA**

Associated Assessment Criteria for Exit Level Outcome 1:

1.1 The Nature Conservation environment is explained in terms of the role-players in the sector.

- 1.2 Nature Conservation is explained as it relates to the history and the role, purpose and principles of Nature Conservation in society.
- 1.3 Nature Conservation ethics are explained as it relates to different cultural and ethical perspectives.
- 1.4 The role, purpose and function of Conservation Resources Guardianship are explained according to industry requirements.

Associated Assessment Criteria for Exit Level Outcome 2:

- 2.1 Details are provided of the diverse natural and cultural heritage of the site of operation.
- 2.2 Factors impacting on Nature Conservation are identified and explained as it applies to the area of operation.
- 2.3 Written and oral communication in the area of operation is correctly understood interpreted, applied and is carried out according to operational requirements.
- 2.4 Mathematical Calculations are understood and applied according to operational requirements.
- 2.5 Safety, security and occupational health requirements are understood are maintained in accordance with organisational requirements.

Associated Assessment Criteria for Exit Level Outcome 3:

- 3.1 Conservation Resources guardianship requirements as it relate to law enforcement, management of natural resources and infrastructure maintenance are identified and explained.
- 3.2 Conservation Resources Guardianship requirements and functions are executed in accordance with organizational procedures, time-frames and standards.
- 3.3 Conservation Resources Guardianship responsibilities in own area of operation are maintained as part of a team and in accordance to organizational requirements.

Integrated Assessment:

Assessment practices must be open, transparent, fair, valid, and reliable and must ensure that no learner is disadvantaged in any way whatsoever. For this purpose, an integrated assessment approach is incorporated into the Qualification.

Learning, teaching and assessment are inextricably aligned. Whenever possible, the assessment of knowledge, skills, attitudes and values shown in the unit standards should be integrated through the practical application of sales and services in a Nature Conservation environment.

Assessment of the communication, language, literacy and numeracy should be conducted in conjunction with other aspects and should use authentic Nature Conservation sales and services 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. During integrated assessments the assessor should make use of formative and summative assessment methods and assess combinations of practical, applied, foundational and reflective competencies.

Assessors and moderators should make use of a range of formative and summative assessment methods. 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.

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**

Very good examples of Nature Conservation practices can be found in Tanzania, Brazil, Argentina, Australia and Canada. Selecting a specific area of best practice, is however not a straightforward choice due to the fact that all of these countries in some way or another provide excellent practices in areas that may be similar to our own operational environment or principles of conservation envisaged in the post 1994 South Africa.

The specific best practices focus, might thus determine the specific application of similar practices in comparison to the South African Nature Conservation environment:

Tanzania can be regarded as a leader in open systems/environments conservation, a practice relating to the shift in Nature Conservation practices in South Africa to enlarge conservation areas and integrate adjacent conservation areas and even neighboring states without fences. Tanzania relies heavily on community cooperation as these individuals are seen as stakeholders in the conservation process and system. This again mirrors the vision and objectives of South African Nature Conservation.

Australia offers best practices when the focus shifts to similarity of habitat as Australia deals with localized bio-diversity systems, a conservation focus very similar to the localized South African biomes. These include terrestrial and marine ecological patterns, tableland plateaus, rainforests and barrier reefs where the tropical lowland rainforest is biogeographically the oldest in the world.

Brazil and Argentina excels in the management of conservation tourism associated with large numbers of individuals accessing and utilizing natural resources environment for this purpose.

The following two qualifications were selected for purposes of International Comparison:

- The Certificate in Wildlife Management as presented by the College of African Wildlife Management in Tanzania.
- The Level 2 Certificate in Conservation and Land Management registration number RTD 20102 as per the Australian Qualifications Framework.

The Certificate in Wildlife Management (Tanzania) is an entry level one year qualification providing learners with training in the basic aspects of wildlife management ranging from wildlife biology and ecology.

The following main areas of learning is included in the Curriculum:

- Firearms.
- Orientation to Wildlife Management.
- Basic Field Skills.
- Identification of Plants.
- Identification of Invertebrates, Fish, Amphibians and Reptiles.
- Anti-poaching and Law enforcement.
- Identification of birds.
- People and Conservation.
- Identification of Mammals.
- General Ecology.

- Data Collection.
- Field identification and Ecological monitoring.
- Infrastructure Construction and Maintenance.
- General Administration.

The envisaged qualification compares well with its African counterpart in terms of the following standards incorporated into the qualification:

- Understand Nature Conservation issues.
- Demonstrate knowledge of Conservation ethics.
- Identify and monitor local wildlife.
- Perform conservation guardianship (poaching and law enforcement).
- Computer literacy (administration skills).
- Harvesting of Fauna.
- Harvesting of Flora.
- Combat problem plants.
- Field specimen and environmental data collection.
- Soil erosion.
- A number of standards dealing with infrastructure maintenance.

The envisaged qualifications improves on the Tanzanian programme in that fire prevention, use of maps, control of dangerous damage causing animals as well as non-dangerous damage causing animals as well as personal values and ethics are electives presently not identified as forming part of the Tanzanian curriculum.

Provision in terms of electives is also made for the use and application of fire-arms, providing optional choices to address operational and organizational requirements.

The RTD 20102 Vocational qualification used as an entry level for Conservation and land management in Australia is truly comprehensive as it enables specialization, through the selection of pre-determined selections of standards in the following areas:

- General Land Management.
- Conservation Earthworks.
- Community Coordination and Facilitation.
- Indigenous Land Management.
- Lands, Parks and Wildlife.
- Natural Area restoration.
- Weed Management.
- Vertebrate Pest Management.

Of these, the Lands, Parks and Wildlife specialization was selected for comparison with the envisaged qualification:

Note: Areas printed in *Italic* compares with the envisaged Nature Conservation: Resources Guardianship NQF Level 2.

Nine units of compulsory competencies are required. These include:

- Occupational Health and Safety.
- Observe Environmental work practices.
- Carry out natural area restoration works.
- Conduct visual inspection of part facilities.
- Maintain properties and Structures.
- Operate in isolated and remote situations.



- First Aid.
- Work effectively in industry.
- Participate in workplace communications.

An additional six Units of learning must be selected from the following:

- Reduce wildfire hazards.
- Respond to wildfire.
- Protect and preserve incident scene.
- Plant trees and scrubs.
- Recognise plants.
- Recognise animals:
- Install aggregate paths.
- Undertake operational maintenance of machinery.
- Operate and maintain chainsaws.
- Operate machinery and equipment.
- Operate tractors.
- Treat plant pests.
- Maintain cultural places.
- Apply chemicals under supervision.
- Observe and report on plants and or animals.
- Operate a small vessel.
- Provide on-site information and assistance.
- Work as a guide.

Seven areas of strong similarity are evident in the elective component whilst the six of the eight compulsory areas overlaps.

The South African qualification provides alternative focus areas such as:

- Combating of soil erosion.
- Computer literacy.
- Teamwork.
- HIV/Aids understanding.
- Enforcing of fishing practices.
- Research.
- Personal values and ethics.
- Self organization.
- Dealing with individuals with special needs.
- Use of maps.
- Control of dangerous and non-dangerous animals.

Conclusion:

The qualification compares very well with the observed best practices in Australia and Tanzania in particular within the operational areas of excellence for the similarity of habitat perceived in Australia and the open system approach followed in Tanzania.

Similarity of competencies associated with the two qualifications selected for comparison is clearly identifiable but in some instances the South African qualification provides a somewhat broader scope of choice to meet South African Nature Conservation requirements in particular for personal development (Computer literacy, teamwork, HIV/Aids, Personal values and ethics, self organization and special needs).

Soil erosion and the effective use of maps as well as the control of animals (both non dangerous and dangerous) are also emphasized in the South African qualification to address specific industry and occupational needs from a South African perspective.

It is clear from the comparison that a similar approach perhaps with slightly different focus areas to provide for our unique requirements are followed and that the main areas of competence shared amongst the three qualifications are certainly on par.

### **ARTICULATION OPTIONS**

This Qualification provides the following articulation opportunities:

Vertical articulation:

- ID 49752: National Certificate: Environmental Practice, Level 3.

Horizontal articulation:

- ID 48433: National Certificate: Conservation: Species Care in Controlled Environments, Level 2.

### **MODERATION OPTIONS**

- Anyone moderating assessment of a learner, against this Qualification must be registered as a moderator with the relevant ETQA, or with an ETQA that has a Memorandum of Understanding with the relevant ETQA.
- Any institution offering learning that may 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 the relevant ETQA.
- Assessment and moderation of assessment may be overseen by the relevant ETQA according to the policies and guidelines for assessment and moderation of that ETQA, in terms of agreements reached around assessment and moderation between various ETQAs (including professional bodies), and in terms of the moderation guideline detailed immediately below.
- Moderation must include both internal and external moderation of assessments at all exit points of the Qualification, unless ETQA policies specify otherwise. Moderation should also encompass achievement of the competence described both in individual Unit Standards as well as the integrated competence described in the Exit Level Outcomes of the Qualification.
- Anyone wishing to be assessed against this Qualification may apply to be assessed by any assessment agency, assessor or provider institution that is accredited by the relevant ETQA, or with an ETQA that has a Memorandum of Understanding with the relevant ETQA.

### **CRITERIA FOR THE REGISTRATION OF ASSESSORS**

Anyone assessing a learner, against this Qualification must be registered as an assessor with the relevant ETQA, or with an ETQA that has a Memorandum of Understanding with the relevant ETQA.

For an applicant to register as an assessor or moderator of this Qualification the applicant needs:

- To be declared competent in all the outcomes of the National Assessor Unit Standards.
- To be competent in the outcomes of this Qualification.

### **NOTES**

Where a learner selects to do the unit standard pertaining to the control of potentially dangerous animals, it is recommended that the most appropriate of the provided weapons unit standards in the elective component should be completed. In this instance the learner will have to meet firearms licensing requirements as per the Firearms Control Act.

### UNIT STANDARDS

	ID	UNIT STANDARD TITLE	LEVEL	CREDITS
Fundamental	119463	Access and use information from texts	Level 2	5
Fundamental	9009	Apply basic knowledge of statistics and probability to influence the use of data and procedures in order to investigate life related problems	Level 2	3
Fundamental	7480	Demonstrate understanding of rational and irrational numbers and number systems	Level 2	3
Fundamental	9008	Identify, describe, compare, classify, explore shape and motion in 2-and 3-dimensional shapes in different contexts	Level 2	3
Fundamental	119454	Maintain and adapt oral/signed communication	Level 2	5
Fundamental	119460	Use language and communication in occupational learning programmes	Level 2	5
Fundamental	7469	Use mathematics to investigate and monitor the financial aspects of personal and community life	Level 2	2
Fundamental	9007	Work with a range of patterns and functions and solve problems	Level 2	5
Fundamental	119456	Write/present for a defined context	Level 2	5
Core	252455	Carry out the harvesting of fauna	Level 2	4
Core	252458	Carry out the harvesting of flora	Level 2	3
Core	252451	Collect field specimens and environmental data	Level 2	4
Core	252453	Combat problem plants	Level 2	3
Core	252457	Combat soil erosion	Level 2	8
Core	110064	Contribute to the health, safety and security of the workplace	Level 2	4
Core	244605	Demonstrate ability to participate effectively in a team or group	Level 2	2
Core	8336	Demonstrate knowledge of conservation ethics	Level 2	3
Core	252468	Demonstrate knowledge of nature conservation in terms of its role and function in society	Level 2	4
Core	252462	Identify and monitor local wildlife	Level 2	8
Core	252460	Implement cultural heritage resources management in the field	Level 2	5
Core	7547	Operate a personal computer system	Level 2	6
Core	252456	Orientate, navigate, use and create maps in conservation areas	Level 2	8
Core	252452	Perform conservation guardianship	Level 2	4
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
Elective	252466	Assist in the control of potentially dangerous damage-causing animal	Level 2	6
Elective	252459	Control non-dangerous damage causing animals	Level 2	4
Elective	13963	Demonstrate Knowledge and Understanding Towards Occupational health and safety Regulatory Requirements	Level 2	2
Elective	8418	Do basic research	Level 2	4
Elective	252467	Enforce acceptable basic fishing practices in a limited area	Level 2	7
Elective	252454	Erect, monitor and maintain wildlife fences	Level 2	4
Elective	252461	Ignite, control and extinguish fires in a conservation area unit	Level 2	5
Elective	252465	Perform basic domestic infrastructural maintenance in a conservation area	Level 2	8
Elective	252450	Perform basic field infrastructural maintenance in a conservation area	Level 2	8
Elective	110078	Plan, organise and manage oneself in the organisation	Level 2	2
Elective	8416	Understand and apply personal values and ethics	Level 2	4
Elective	8417	Use numeracy for self-organisation	Level 2	2
Elective	8421	Work with people who have special needs	Level 2	4
Elective	119649	Handle and use a handgun	Level 3	2

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	<b>ID</b>	<b>UNIT STANDARD TITLE</b>	<b>LEVEL</b>	<b>CREDITS</b>
Elective	119651	Handle and use a manually operated rifle or carbine	Level 3	2
Elective	119652	Handle and use a shotgun	Level 3	2



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:*****Perform basic field infrastructural maintenance in a conservation area***

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
252450	Perform basic field infrastructural maintenance in a conservation area		
<b>ORIGINATOR</b>		<b>PROVIDER</b>	
SGB Nature Conservation			
<b>FIELD</b>		<b>SUBFIELD</b>	
1 - Agriculture and Nature Conservation		Nature Conservation	
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 2	8

**SPECIFIC OUTCOME 1**

Identify faulty or problematic field infrastructure.

**SPECIFIC OUTCOME 2**

Report maintenance work needed on field infrastructure.

**SPECIFIC OUTCOME 3**

Carry out basic repair work to field infrastructure.

**SPECIFIC OUTCOME 4**

Identify problems and make suggestions to improve field infrastructure.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

	<b>ID</b>	<b>QUALIFICATION TITLE</b>	<b>LEVEL</b>	<b>STATUS</b>	<b>END DATE</b>
Elective	59389	National Certificate: Nature Conservation: Resource Guardianship	Level 2	Draft - Prep for P Comment	



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

## UNIT STANDARD:

*Collect field specimens and environmental data*

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
252451	Collect field specimens and environmental data		
<b>ORIGINATOR</b>		<b>PROVIDER</b>	
SGB Nature Conservation			
<b>FIELD</b>		<b>SUBFIELD</b>	
1 - Agriculture and Nature Conservation		Nature Conservation	
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 2	4

**SPECIFIC OUTCOME 1**

Use appropriate method/s to collect a range of environmental data and/or specimens.

**SPECIFIC OUTCOME 2**

Locate and record the area for collection.

**SPECIFIC OUTCOME 3**

Collect, obtain data and/or prepare the required specimens according to prescribed procedures.

**SPECIFIC OUTCOME 4**

Package specimens safely for transportation.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

	<b>ID</b>	<b>QUALIFICATION TITLE</b>	<b>LEVEL</b>	<b>STATUS</b>	<b>END DATE</b>
Core	59389	National Certificate: Nature Conservation: Resource Guardianship	Level 2	Draft - Prep for P Comment	



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:****Perform conservation guardianship**

SAQA US ID	UNIT STANDARD TITLE		
252452	Perform conservation guardianship		
ORIGINATOR	PROVIDER		
SGB Nature Conservation			
FIELD	SUBFIELD		
1 - Agriculture and Nature Conservation	Nature Conservation		
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
Undefined	Regular	Level 2	4

**SPECIFIC OUTCOME 1**

Conduct patrols in order to collect and interpret information associated with Conservation Guardianship.

**SPECIFIC OUTCOME 2**

React appropriately within the law and according to established procedures, in order to counter any illegal activities.

**SPECIFIC OUTCOME 3**

Collect evidence in order to be able to prosecute a suspect and present evidence in court of law.

**SPECIFIC OUTCOME 4**

Apply appropriate communication techniques during the operation.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

	ID	QUALIFICATION TITLE	LEVEL	STATUS	END DATE
Core	59389	National Certificate: Nature Conservation: Resource Guardianship	Level 2	Draft - Prep for P Comment	



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:****Combat problem plants**

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
252453	Combat problem plants		
<b>ORIGINATOR</b>		<b>PROVIDER</b>	
SGB Nature Conservation			
<b>FIELD</b>		<b>SUBFIELD</b>	
1 - Agriculture and Nature Conservation		Nature Conservation	
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 2	3

**SPECIFIC OUTCOME 1**

Identify all key target problem plant species in a conservation area.

**SPECIFIC OUTCOME 2**

Apply the appropriate control method(s) accurately and safely.

**SPECIFIC OUTCOME 3**

Operate and maintain equipment used in the control of problem plants.

**SPECIFIC OUTCOME 4**

Keep records of treated areas by means of a recognized method.

**SPECIFIC OUTCOME 5**

Carry out appropriate follow up procedures.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

	<b>ID</b>	<b>QUALIFICATION TITLE</b>	<b>LEVEL</b>	<b>STATUS</b>	<b>END DATE</b>
Core	59389	National Certificate: Nature Conservation: Resource Guardianship	Level 2	Draft - Prep for P Comment	





## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:*****Erect, monitor and maintain wildlife fences***

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
252454	Erect, monitor and maintain wildlife fences		
<b>ORIGINATOR</b>		<b>PROVIDER</b>	
SGB Nature Conservation			
<b>FIELD</b>		<b>SUBFIELD</b>	
1 - Agriculture and Nature Conservation		Nature Conservation	
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 2	4

**SPECIFIC OUTCOME 1**

Prepare an area for fencing.

**SPECIFIC OUTCOME 2**

Erect and dismantle a fence.

**SPECIFIC OUTCOME 3**

Monitor the fence for effectiveness.

**SPECIFIC OUTCOME 4**

Maintain the fence.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

	<b>ID</b>	<b>QUALIFICATION TITLE</b>	<b>LEVEL</b>	<b>STATUS</b>	<b>END DATE</b>
Elective	59389	National Certificate: Nature Conservation: Resource Guardianship	Level 2	Draft - Prep for P Comment	



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:****Carry out the harvesting of fauna**

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
252455	Carry out the harvesting of fauna		
<b>ORIGINATOR</b>		<b>PROVIDER</b>	
SGB Nature Conservation			
<b>FIELD</b>		<b>SUBFIELD</b>	
1 - Agriculture and Nature Conservation		Nature Conservation	
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 2	4

**SPECIFIC OUTCOME 1**

Carry out maintenance checks on equipment used for culling or harvesting.

**SPECIFIC OUTCOME 2**

Carry out appropriate harvesting procedures.

**SPECIFIC OUTCOME 3**

Collect and record basic biological data of the specimens captured.

**SPECIFIC OUTCOME 4**

Report on the harvest.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

	<b>ID</b>	<b>QUALIFICATION TITLE</b>	<b>LEVEL</b>	<b>STATUS</b>	<b>END DATE</b>
Core	59389	National Certificate: Nature Conservation: Resource Guardianship	Level 2	Draft - Prep for P Comment	



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:*****Orientate, navigate, use and create maps in conservation areas***

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
252456	Orientate, navigate, use and create maps in conservation areas		
<b>ORIGINATOR</b>		<b>PROVIDER</b>	
SGB Nature Conservation			
<b>FIELD</b>		<b>SUBFIELD</b>	
1 - Agriculture and Nature Conservation		Nature Conservation	
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 2	8

**SPECIFIC OUTCOME 1**

Communicate directions to specific locations according to the requirements of the situation.

**SPECIFIC OUTCOME 2**

Find, orientate and navigate along a route to a specified destination.

**SPECIFIC OUTCOME 3**

Read, interpret and use maps.

**SPECIFIC OUTCOME 4**

Draw and/or create simple maps.

**SPECIFIC OUTCOME 5**

Plot information on a map using symbols.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

	<b>ID</b>	<b>QUALIFICATION TITLE</b>	<b>LEVEL</b>	<b>STATUS</b>	<b>END DATE</b>
Core	59389	National Certificate: Nature Conservation: Resource Guardianship	Level 2	Draft - Prep for P Comment	



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:****Combat soil erosion**

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
252457	Combat soil erosion		
<b>ORIGINATOR</b>		<b>PROVIDER</b>	
SGB Nature Conservation			
<b>FIELD</b>		<b>SUBFIELD</b>	
1 - Agriculture and Nature Conservation		Nature Conservation	
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 2	8

**SPECIFIC OUTCOME 1**

Evaluate the effectiveness of the interventions and improve on them.

**SPECIFIC OUTCOME 2**

Implement systems of remediation and report on them.

**SPECIFIC OUTCOME 3**

Control erosion through taking appropriate remedial action in the long and short term.

**SPECIFIC OUTCOME 4**

Detect and explain the causes of erosion.

**SPECIFIC OUTCOME 5**

Detect soil erosion sites.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

	<b>ID</b>	<b>QUALIFICATION TITLE</b>	<b>LEVEL</b>	<b>STATUS</b>	<b>END DATE</b>
Core	59389	National Certificate: Nature Conservation: Resource Guardianship	Level 2	Draft - Prep for P Comment	



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:****Carry out the harvesting of flora**

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
252458	Carry out the harvesting of flora		
<b>ORIGINATOR</b>		<b>PROVIDER</b>	
SGB Nature Conservation			
<b>FIELD</b>		<b>SUBFIELD</b>	
1 - Agriculture and Nature Conservation		Nature Conservation	
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 2	3

**SPECIFIC OUTCOME 1**

Identify the species or specimen(s) to be harvested.

**SPECIFIC OUTCOME 2**

Carry out the harvesting process.

**SPECIFIC OUTCOME 3**

Supervise the harvesting process where conducted by authorised temporary harvesters.

**SPECIFIC OUTCOME 4**

Record, report and reflect on the harvest.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

	<b>ID</b>	<b>QUALIFICATION TITLE</b>	<b>LEVEL</b>	<b>STATUS</b>	<b>END DATE</b>
Core	59389	National Certificate: Nature Conservation: Resource Guardianship	Level 2	Draft - Prep for P Comment	



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:*****Control non-dangerous damage causing animals***

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
252459	Control non-dangerous damage causing animals		
<b>ORIGINATOR</b>			<b>PROVIDER</b>
SGB Nature Conservation			
<b>FIELD</b>			<b>SUBFIELD</b>
1 - Agriculture and Nature Conservation			Nature Conservation
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 2	4

**SPECIFIC OUTCOME 1**

Identify and locate non-dangerous damage causing animals.

**SPECIFIC OUTCOME 2**

Assist in control measures for non-dangerous damage causing animals within the area of operation.

**SPECIFIC OUTCOME 3**

Carry out skinning, disposal, preservation and other procedures to remove carcasses of animals.

**SPECIFIC OUTCOME 4**

Assist in community interactions.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

	<b>ID</b>	<b>QUALIFICATION TITLE</b>	<b>LEVEL</b>	<b>STATUS</b>	<b>END DATE</b>
Elective	59389	National Certificate: Nature Conservation: Resource Guardianship	Level 2	Draft - Prep for P Comment	



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:*****Implement cultural heritage resources management in the field***

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
252460	Implement cultural heritage resources management in the field		
<b>ORIGINATOR</b>		<b>PROVIDER</b>	
SGB Nature Conservation			
<b>FIELD</b>		<b>SUBFIELD</b>	
1 - Agriculture and Nature Conservation		Nature Conservation	
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 2	5

**SPECIFIC OUTCOME 1**

Define basic concepts of cultural heritage resource management.

**SPECIFIC OUTCOME 2**

Describe local cultural heritage practices, traditions and sites.

**SPECIFIC OUTCOME 3**

Monitor cultural heritage sites.

**SPECIFIC OUTCOME 4**

Outline relevant aspects of cultural heritage legislation.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

	<b>ID</b>	<b>QUALIFICATION TITLE</b>	<b>LEVEL</b>	<b>STATUS</b>	<b>END DATE</b>
Core	59389	National Certificate: Nature Conservation: Resource Guardianship	Level 2	Draft - Prep for P Comment	



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:*****Ignite, control and extinguish fires in a conservation area unit***

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
252461	Ignite, control and extinguish fires in a conservation area unit		
<b>ORIGINATOR</b>		<b>PROVIDER</b>	
SGB Nature Conservation			
<b>FIELD</b>		<b>SUBFIELD</b>	
1 - Agriculture and Nature Conservation		Nature Conservation	
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 2	5

**SPECIFIC OUTCOME 1**

Assist in preparing to burn.

**SPECIFIC OUTCOME 2**

Ignite fires as prescribed.

**SPECIFIC OUTCOME 3**

Extinguish fires.

**SPECIFIC OUTCOME 4**

Perform post-burn actions.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

	<b>ID</b>	<b>QUALIFICATION TITLE</b>	<b>LEVEL</b>	<b>STATUS</b>	<b>END DATE</b>
Elective	59389	National Certificate: Nature Conservation: Resource Guardianship	Level 2	Draft - Prep for P Comment	





## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

## UNIT STANDARD:

*Identify and monitor local wildlife*

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
252462	Identify and monitor local wildlife		
<b>ORIGINATOR</b>		<b>PROVIDER</b>	
SGB Nature Conservation			
<b>FIELD</b>		<b>SUBFIELD</b>	
1 - Agriculture and Nature Conservation		Nature Conservation	
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 2	8

**SPECIFIC OUTCOME 1**

Explain the purpose and state the principles of wildlife monitoring.

**SPECIFIC OUTCOME 2**

Identify local plants and animal species including their sign, spoor and habitat.

**SPECIFIC OUTCOME 3**

Count the local plants and animals.

**SPECIFIC OUTCOME 4**

Determine the locality of animals, plants and abiotic elements.

**SPECIFIC OUTCOME 5**

Record information on species observed.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

	<b>ID</b>	<b>QUALIFICATION TITLE</b>	<b>LEVEL</b>	<b>STATUS</b>	<b>END DATE</b>
Core	59389	National Certificate: Nature Conservation: Resource Guardianship	Level 2	Draft - Prep for P Comment	



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:*****Perform basic domestic infrastructural maintenance in a conservation area***

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
252465	Perform basic domestic infrastructural maintenance in a conservation area		
<b>ORIGINATOR</b>		<b>PROVIDER</b>	
SGB Nature Conservation			
<b>FIELD</b>		<b>SUBFIELD</b>	
1 - Agriculture and Nature Conservation		Nature Conservation	
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 2	8

**SPECIFIC OUTCOME 1**

Identify domestic infrastructure maintenance needs.

**SPECIFIC OUTCOME 2**

Report maintenance work needed to domestic infrastructure.

**SPECIFIC OUTCOME 3**

Carry out maintenance and basic repair work on domestic infrastructure.

**SPECIFIC OUTCOME 4**

Identify problems and make suggestions to improve domestic infrastructure.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

	<b>ID</b>	<b>QUALIFICATION TITLE</b>	<b>LEVEL</b>	<b>STATUS</b>	<b>END DATE</b>
Elective	59389	National Certificate: Nature Conservation: Resource Guardianship	Level 2	Draft - Prep for P Comment	



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:*****Assist in the control of potentially dangerous damage-causing animal***

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
252466	Assist in the control of potentially dangerous damage-causing animal		
<b>ORIGINATOR</b>		<b>PROVIDER</b>	
SGB Nature Conservation			
<b>FIELD</b>		<b>SUBFIELD</b>	
1 - Agriculture and Nature Conservation		Nature Conservation	
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 2	6

**SPECIFIC OUTCOME 1**

Identify and locate potentially dangerous damage causing animals in the area of operation.

**SPECIFIC OUTCOME 2**

Assist in control measures that may be necessary involving potentially dangerous damage-causing animals.

**SPECIFIC OUTCOME 3**

Carry out skinning, disposal and other related procedures.

**SPECIFIC OUTCOME 4**

Assist in community interactions through education and the mitigation of impacts by damage causing animals.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

	<b>ID</b>	<b>QUALIFICATION TITLE</b>	<b>LEVEL</b>	<b>STATUS</b>	<b>END DATE</b>
Elective	59389	National Certificate: Nature Conservation: Resource Guardianship	Level 2	Draft - Prep for P Comment	



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:*****Enforce acceptable basic fishing practices in a limited area***

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
252467	Enforce acceptable basic fishing practices in a limited area		
<b>ORIGINATOR</b>		<b>PROVIDER</b>	
SGB Nature Conservation			
<b>FIELD</b>		<b>SUBFIELD</b>	
1 - Agriculture and Nature Conservation		Nature Conservation	
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 2	7

**SPECIFIC OUTCOME 1**

Identify the types of commercial, artisanal, subsistence and recreational fishing activities that are practiced in your area of operation.

**SPECIFIC OUTCOME 2**

Identify non-extractive activities.

**SPECIFIC OUTCOME 3**

Identify probable illegal activities in the area.

**SPECIFIC OUTCOME 4**

Report on fishing and related activities in the local area.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

	<b>ID</b>	<b>QUALIFICATION TITLE</b>	<b>LEVEL</b>	<b>STATUS</b>	<b>END DATE</b>
Elective	59389	National Certificate: Nature Conservation: Resource Guardianship	Level 2	Draft - Prep for P Comment	



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:**

***Demonstrate knowledge of nature conservation in terms of its role and function in society***

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>		
252468	Demonstrate knowledge of nature conservation in terms of its role and function in society		
<b>ORIGINATOR</b>		<b>PROVIDER</b>	
SGB Nature Conservation			
<b>FIELD</b>		<b>SUBFIELD</b>	
1 - Agriculture and Nature Conservation		Nature Conservation	
<b>ABET BAND</b>	<b>UNIT STANDARD TYPE</b>	<b>NQF LEVEL</b>	<b>CREDITS</b>
Undefined	Regular	Level 2	4

**SPECIFIC OUTCOME 1**

Explain the concept and principles of nature conservation in broad terms.

**SPECIFIC OUTCOME 2**

Outline the history of nature conservation.

**SPECIFIC OUTCOME 3**

Demonstrate the relevance of nature conservation principles to society.

**SPECIFIC OUTCOME 4**

Explain the inter-relatedness within ecosystems.

**SPECIFIC OUTCOME 5**

Identify scarce plants and animals.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

	<b>ID</b>	<b>QUALIFICATION TITLE</b>	<b>LEVEL</b>	<b>STATUS</b>	<b>END DATE</b>
Core	59389	National Certificate: Nature Conservation: Resource Guardianship	Level 2	Draft - Prep for P Comment	