NOTICE 557 OF 2001

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 NSB 01, Agriculture and Nature Conservation, publishes the following unit standards-based qualifications for public comment.

This notice contains the titles, fields, sub-fields, NQF levels, credits, and purposes of the qualifications, and the titles and specific outcomes of the unit standards upon which qualifications are based. The full qualifications and unit standards can be accessed via the SAQA web-site at <u>www.saqa.co.za</u>. Copies may also be obtained from the Directorate of Standards Setting and Development at the SAQA offices, 659 Pienaar street, Brooklyn, Pretoria.

Comment on the qualifications and unit standards should reach SAQA at the address **below** and no later than Monday 2 April 2001. All correspondence should be marked Standards Setting – SGB for Nature Conservation and addressed to

> The Director: Standard Setting and Development SAQA Attention: Mrs S. Vasuthevan Postnet Suite 248 Private Bag X06 Waterkloof 0145 or faxed to 012 – 346 5812

SAMUEL B.A. ISAACS

STAATSKOERANT, 8 MAART 2001

NATIONAL CERTIFICATE IN NATURE CONSERVATION

Field:	Agriculture and Nature Conservation
Sub-field:	Nature Conservation
NQF Level:	2
Credits:	121
Purpose:	The qualifying learner is able to perform a multiple set of roles in assisting with the maintenance of the integrity of a conserved area, by integrating operational knowledge and skills.
	Learners with this qualification will be able to carry out conservation security practices within a designated conserved area; combat soil erosion and alen invader plant species; gather basic biological data for research purposes; and perform a liaison function with neighbouring communities in terms of raising their awareness of important environmental issues and considerations, as well as what constitutes legal and illegal acts if carried out within a conserved area.
	Learners will be able to function within a team and understand and follow instructions clearly.

UNIT STANDARDS TITLES NOF LEVEL 2

Fundamental Learning:

- 1. Operate a personal computer system (Registered Unit Standard ID number 7547)
- 2. Do basic research
- 3. Understand social issues
- 4. Operate in a team
- 5. Apply basic written and oral communication skills
- 6. Use numeracy for self-organisation
- 7. Understand and apply personal values and ethics

- 8. Organise oneself in the workplace
- 9. Work with people who have special needs

Core Learning:

- 1. Perform conservation guardianship
- 2. Understand nature conservation
- 3. Manage cultural heritage resources in the field
- 4. Perform basic infrastructural maintenance
- 5. Demonstrate knowledge of conservation ethics
- 6. Identify and monitor local wildlife
- 7. Control problem animals
- 8. Carry out the harvesting of fauna
- 9. Carry out the harvesting of flora
- 10. Handle weapons NQF Level 5
- 11. Collect field specimens
- 12. Maintain occupational health and safety
- 13. Demonstrate an understanding of HIV/AIDS and its implications

Elective Learning:

- 1. Combat soil erosion
- 2. Combat problem plants
- 3. Apply appropriate burning techniques
- 4. Erect and maintain wildlife fencing

CREDIT COMPOSITION:

FUNDAMENTAL		CORE		ELECTIVE	
Operate a personal		Perform nature			
computer	6	conservation guardianship	8	Combat soil erosion	2
		Understand nature		Combat problem	
Do basic research	4	conservation issues	4	plants	3
		Manage cultural heritage		Apply appropriate	
Understand social issues	4	resources in the field	2	burning techniques	3
		Demonstrate knowledge of		Erect and maintain	
Operate in a team	4	conservation ethics	3	wildlife fencing	4
Apply basic written and		Identify and monitor local			
oral communication skills	10	wildlife	8		
Use numeracy for self-					
organisation	2	Control problem animals	4		
Understand and apply		Carry out the harvesting o			
personal values and	4	fauna	3		
ethics					

STAATSKOERANT, 8 MAART 2001

No. 22126 41

FUNDAMENTAL		CORE		ELECTIVE	
Organise oneself in the workplace	3	Carry out the harvesting of flora	3		
Work with people who have special needs	4	Handle weapons	4		
		Collect field specimens	2		
		Maintain occupational health and safety	2		
		Demonstrate an understanding of HIV/AIDS and its implications	4		
TOTAL	41	TOTAL	47	TOTAL	12

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42 No. 22126

GOVERNMENT GAZETTE, 8 MARCH 2001

UNIT STANDARDS FOR NATURE CONSERVATION

UNIT STANDARDS TITLES AND SPECIFIC OUTCOMES - NQF LEVEL 2

1. Title: Perfo	rm Basic Infrastructural Maintenance
Specific outcome 1.1:	Identify levels of expected maintenance of infrastructure
Specific outcome 1.2:	Assess existing infrastructure against agreed standards
Specific outcome 1.3:	Carry out continuous maintenance or repairs of infrastructure where authorised and competent to do so
Specific outcome 1.4:	Refer repairs or maintenance where unauthorised or unskilled to deal with them
Specific outcome 1.5:	Make suggestions to improve future maintenance of infrastructure
2. Title: Appl	y Appropriate Burning Techniques
Specific outcome 2.1:	Initiate a fire to achieve management objectives
Specific outcome 2.2:	Extinguish fires where appropriate to the management objectives
Specific outcome 2.3:	Effectively use fire-fighting equipment
Specific outcome 2.4:	Secure the area after a fire
Specific outcome 2.5:	Produce a report
3. Title: Combat Pr	oblem Plants
Specific outcome 3.1:	Identify target species
Specific outcome 3.2:	Operate and maintain equipment
Specific outcome 3.3:	Safely use the appropriate control methods
Specific outcome 3.4:	Map treated areas

- Specific outcome 3.5: Carry out follow-up procedures
- Specific outcome 3.6: Keep an attendance register

UNIT STANDARDS TITLES AND SPECIFIC OUTCOMES - NQF LEVEL 2

4. Title: Combat So	il Erosion
Specific outcome 4.1:	Identify erosion sites
Specific outcome 4.2:	Identify the causes of erosion
Specific outcome 4.3:	Control erosion through taking appropriate remedial action in the long and short term
Specific outcome 4.4:	Maintain management systems
Specific outcome 4.5:	Evaluate actions taken and identify possible areas for self-improvement
5. Title: Perform Co	onservation Guardianship
Specific outcome 5.1:	Collect and interpret information about the status of activities in an area, using patrolling, observation and detection
Specific outcome 5.2:	React appropriately within the law and according to procedure, in order to counter any illegal activities
Specific outcome 5.3:	Collect information in order to be able to prosecute a suspect and present evidence in a court of law
Specific outcome 5.4:	Effectively communicate information gathered by various methods

6. Title: Collect Field Specimens

Specific outcome 6.1:	Use prescribed metho	d of collection for specific species
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- Specific outcome 6.2: Locate the appropriate or specified area
- Specific outcome 6.3: Collect the required specimens
- Specific outcome 6.4: Transport specimens and report to the place where they will be handed over

7. Title: Carry out the Harvesting of Fauna

- Specific outcome 7.1: Carry out checks on equipment and methods used
- Specific outcome 7.2: Collect and record basic biological data

UNIT STANDARDS TITLES AND SPECIFIC OUTCOMES - NQF LEVEL 2

- Specific outcome 7.3: Carry out and / or monitor appropriate harvest product processing according to the use and local veterinary, legal and quality assurance requirements.
- Specific outcome 7.4: Record and report on the harvest

8. Title: Carry out the Harvesting of Flora

- Specific outcome 8.1: Locate the harvest site
- Specific outcome 8.2: Identify the species to be harvested
- Specific outcome 8.3: Supervise the harvesting process
- Specific outcome 8.4: Record the harvest
- Specific outcome 8.5; Report on the harvest
- Specific outcome 8.6: Evaluate the efficiency and effectiveness of the harvesting process and methods

9. Title: Demonstrate Knowledge of Conservation Ethics

- Specific outcome 9.1: Demonstrate respect for others, their possessions and the environment taking into account cultural protocols
- Specific outcome 9.2: Articulate different cultural interests and values with regard to the environment
- Specific outcome 9.3: Explain which interactions between humans and the natural environment will achieve a successful environment
- 10. Title: Identify and Monitor Local Wildlife
- Specific outcome 10.1: State the purpose and principles of monitoring used
- Specific outcome 10.2: Identify local plants and animals species including their sign, spoor and habitat
- Specific outcome 10.3: Count plants and animals accurately

Specific outcome 10.4: Determine sex and age of relevant species

UNIT STANDARDS TITLES AND SPECIFIC OUTCOMES - NQF LEVEL 2

- Specific outcome 10.5: Specify the locality of animals / plants / abiotic elements
- Specific outcome 10.6: Record information on species observed

11. Title: Manage Cultural Heritage Resources in the Field

- Specific outcome 11.1: Define basic cultural heritage resource management
- Specific outcome 11.2 Recognise local cultural heritage practices, traditions and sites.
- Specific outcome 11.3 Monitor cultural heritage sites
- Specific outcome 11.4: Demonstrate a working knowledge of relevant cultural heritage legislation.

12. Title: Control Problem Animals

Specific outcome 12.1:	Identify any given non-dangerous animal
Specific outcome 12.2:	Assist in control measures that may be necessary involving non- dangerous species
Specific outcome 12.3:	Carry out skinning procedures which may be necessary as a result of the control of non-dangerous animals as well as assist in the disposal of carcasses
Specific outcome 12.4:	Assist in employer – community interactions in addressing problem animal incidents adjacent to protected areas

13. Title: Understand Nature Conservation Issues

Specific outcome 13.1:	Broadly explain the concept and principles of nature conservation
Specific outcome 13.2:	Explain the history of nature conservation and how it impacts upon the present situation
Specific outcome 13.3:	Explain the relevance of nature conservation principles to society
Specific outcome 13.4:	Explain the inter relatedness within ecosystems
Specific outcome 13.5:	Identify locally scarce plants and animals according to the IUCN (the World Conservation Union) categories
Specific outcome 13.6:	Explain the necessity of environmental impact assessment

46 No. 22126

GOVERNMENT GAZETTE, 8 MARCH 2001

UNIT STANDARDS TITLES AND SPECIFIC OUTCOMES - NQF LEVEL 2

14. Title: Erect And Maintain Wildlife Fencing

Specific outcome 14.1:	Erect and dismantle a fence of specified standard on a prescribed line
Specific outcome 14.2	Prepare an area for fencing
Specific outcome 14.3:	Monitor the fence for effectiveness once erected
Specific outcome 14.4:	Monitor any impact of animals on communities
Specific outcome 14.5:	Patrol and maintain the fence on a regular basis
Specific outcome 14.6:	Repair broken fences
Specific outcome 14.7:	Construct fences at river crossings