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**SOUTH AFRICAN QUALIFICATIONS AUTHORITY
REGISTERED UNIT STANDARD:**

Implement a natural resource management plan

SAQA US ID	UNIT STANDARD TITLE			
116303	Implement a natural resource management plan			
ORIGINATOR		ORIGINATING PROVIDER		
SGB Primary Agriculture				
QUALITY ASSURING BODY				
-				
FIELD			SUBFIELD	
Field 01 - Agriculture and Nature Conservation			Primary Agriculture	
ABET BAND	UNIT STANDARD TYPE	OLD NQF LEVEL	NEW NQF LEVEL	CREDITS
Undefined	Regular	Level 4	NQF Level 04	3
REGISTRATION STATUS		REGISTRATION START DATE	REGISTRATION END DATE	SAQA DECISION NUMBER
Reregistered		2009-07-01	2012-06-30	SAQA 0480/09
LAST DATE FOR ENROLMENT		LAST DATE FOR ACHIEVEMENT		
2013-06-30		2016-06-30		

In all of the tables in this document, both the old and the new NQF Levels are shown. In the text (purpose statements, qualification rules, etc), any reference to NQF Levels are to the old levels unless specifically stated otherwise.

This unit standard does not replace any other unit standard and is not replaced by any other unit standard.

PURPOSE OF THE UNIT STANDARD

A learner achieving this unit standard will be able to explain the importance of natural resource management in relation to regional agricultural practices. The learner will be able to incorporate this understanding into the implementation of a natural resource management plan of the farm, which draws on a broader area wide plan.

Competent learners will be fully conversant with agricultural regulations and aspects of conservation, providing the basis for the application of quality practices. Learners will gain an understanding of sustainable agricultural practices as applied in the animal-, plant and mixed farming sub fields. This unit standard focuses on the application of natural resource management in primary agriculture.

They will be able to participate in, undertake and plan farming practices with knowledge of their environment. This unit standard will instil a culture of maintenance and care for both the environment as well as towards farming infrastructure and operations.

LEARNING ASSUMED TO BE IN PLACE AND RECOGNITION OF PRIOR LEARNING

The learner should demonstrate competence against the unit standard:

- Monitor natural resource management practices, NQF 3, or equivalent.

UNIT STANDARD RANGE

Whilst range statements have been defined generically to include as wide a set of alternatives as possible, all range statements should be interpreted within the specific context of application.

Range statements are neither comprehensive nor necessarily appropriate to all contexts. Alternatives must however be comparable in scope and complexity. These are only as a general guide to scope and complexity of what is required.

Specific Outcomes and Assessment Criteria:

SPECIFIC OUTCOME 1

Assess the efficiency of the routine natural resource management practices and/or applications on the farm.

OUTCOME RANGE

Natural resource management practices include soil erosion management and rehabilitation of degraded areas, rainwater harvesting, maintenance of catchment areas, establishment of rehabilitation areas, invasive alien plant control, fire precautions and sustainable agricultural practices with regard to natural resources.

ASSESSMENT CRITERIA

ASSESSMENT CRITERION 1

Veld types, flora and fauna present, ecosystems in the area, are known.

ASSESSMENT CRITERION 2

Sensitivities relating to endangered or rare/ endemic species are appreciated.

ASSESSMENT CRITERION 3

Management practices are scheduled, monitored and reviewed when appropriate.

SPECIFIC OUTCOME 2

Select and apply (from a range of preventative and/or rehabilitation measures) the most appropriate to the specific regional/local context.

OUTCOME RANGE

Routine mechanical and non-mechanical applications.

ASSESSMENT CRITERIA

ASSESSMENT CRITERION 1

The degree of deterioration / degradation is taken into account.

ASSESSMENT CRITERION 2

The availability of resources is assessed.

ASSESSMENT CRITERION 3

Topography, climate, vegetation and soil are taken into consideration.

ASSESSMENT CRITERION 4

Planned use of the land is taken into account.

SPECIFIC OUTCOME 3

Contribute to strategic planning in terms of natural resource management as relevant to the farm.

OUTCOME RANGE

Strategic planning in terms of ensuring the long-term viability of the resources on the land.

ASSESSMENT CRITERIA**ASSESSMENT CRITERION 1**

Verify and process data on natural resource prevalence and conditions.

ASSESSMENT CRITERION 2

Analyse data and make recommendations.

ASSESSMENT CRITERION 3

Monitor and evaluate changes in biodiversity over time.

SPECIFIC OUTCOME 4

Schedule activities related to alien eradication, erosion control, seasonal and climatic conditions, and use of natural resources.

OUTCOME RANGE

Appropriate activities are scheduled for the season.

ASSESSMENT CRITERIA**ASSESSMENT CRITERION 1**

Above activities are reflected in the year plan.

ASSESSMENT CRITERION 2

Activities coincide with agricultural activities and do not clash with the production schedule.

ASSESSMENT CRITERION 3

Tasks are delegated to workers appropriately.

UNIT STANDARD ACCREDITATION AND MODERATION OPTIONS

The assessment of qualifying learners against this standard should meet the requirements of established assessment principles.

It will be necessary to develop assessment activities and tools, which are appropriate to the contexts in which the qualifying learners are working. These activities and tools may include an appropriate combination of self-assessment and peer assessment, formative and summative assessment, portfolios and observations etc.

The assessment should ensure that all the specific outcomes, critical cross-field outcomes and essential embedded knowledge are assessed.

The specific outcomes must be assessed through observation of performance. Supporting evidence should be used to prove competence of specific outcomes only when they are not clearly seen in the actual performance.

Essential embedded knowledge must be assessed in its own right, through oral or written evidence and cannot be assessed only by being observed.

The specific outcomes and essential embedded knowledge must be assessed in relation to each other. If a qualifying learner is able to explain the essential embedded knowledge but is unable to perform the specific outcomes, they should not be assessed as competent. Similarly, if a qualifying learner is able to perform the specific outcomes but is unable to explain or justify their performance in terms of the essential embedded knowledge, then they should not be assessed as competent.

Evidence of the specified critical cross-field outcomes should be found both in performance and in the essential embedded knowledge.

Performance of specific outcomes must actively affirm target groups of qualifying learners not unfairly discriminate against them. Qualifying learners should be able to justify their performance in terms of these values.

- Anyone assessing a learner against this unit standard must be registered as an assessor with the relevant ETQA.
- Any institution offering learning that will enable achievement of this unit standard or assessing this unit standard 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 procedures.

UNIT STANDARD ESSENTIAL EMBEDDED KNOWLEDGE

The person is able to demonstrate a basic knowledge of:

- Principles of natural resources management.
- Fire fighting (advanced).
- Data processing techniques.
- Principles of sustainability.
- Methods of scheduling.
- Definitions and terminology.
- Methods of strategic planning.
- Basic principles of budgeting.
- Characteristics of soil types.
- Rules of gravity.
- Disasters that occur in the area.
- Basic knowledge of holistic resource management
- Environmental impact assessment.
- Communication techniques.
- Acts and legislation on "conservation of Agricultural Resources".
- OHS Act.
- Natural Resource Conservation Act.
- The water cycle.
- The ecosystems.
- The energy cycle.
- Principles of sustainability.
- Classification of fauna and flora relevant to the area.
- Alien species relevant to the area.
- Soil types and characteristics,
- Definitions.
- Terminology.
- Prevailing climatic conditions of the area.
- Sources of water.
- Sources of energy (renewable and non renewable).

- Topography.
- Types of pollution.
- Importance of natural resources management.

UNIT STANDARD DEVELOPMENTAL OUTCOME

N/A

UNIT STANDARD LINKAGES

N/A

Critical Cross-field Outcomes (CCFO):

UNIT STANDARD CCFO IDENTIFYING

Problem solving relates to all specific outcomes.

UNIT STANDARD CCFO ORGANISING

Self-organisation and management relates to all specific outcomes.

UNIT STANDARD CCFO COLLECTING

Information evaluation relates to all specific outcomes.

UNIT STANDARD CCFO COMMUNICATING

Communication relates to all specific outcomes.

QUALIFICATIONS UTILISING THIS UNIT STANDARD:

	ID	QUALIFICATION TITLE	OLD LEVEL	NEW LEVEL	STATUS	END DATE	QUALITY ASSURING BODY
Core	48979	National Certificate: Animal Production	Level 4	New Level Assignment Pend.	Reregistered	2012-06-30	AgriSETA
Core	49009	National Certificate: Plant Production	Level 4	New Level Assignment Pend.	Reregistered	2012-06-30	AgriSETA

PROVIDERS CURRENTLY ACCREDITED TO OFFER THIS UNIT STANDARD:

This information shows the current accreditations (i.e. those not past their accreditation end dates), and is the most complete record available to SAQA as of today. Some Quality Assuring Bodies have a lag in their recording systems for provider accreditation, in turn leading to a lag in notifying SAQA of all the providers that they have accredited to offer qualifications and unit standards, as well as any extensions to accreditation end dates. The relevant Quality Assuring Body should be notified if a record appears to be missing from here.

1. Africa Land - Use Training

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