

SOUTH AFRICAN QUALIFICATIONS AUTHORITY**REGISTERED UNIT STANDARD:****Apply elementary farm layout and infrastructure**

SAQA US ID	UNIT STANDARD TITLE			
116172	Apply elementary farm layout and infrastructure			
ORIGINATOR		ORIGINATING PROVIDER		
SGB Primary Agriculture				
QUALITY ASSURING BODY				
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FIELD			SUBFIELD	
Field 01 - Agriculture and Nature Conservation			Primary Agriculture	
ABET BAND	UNIT STANDARD TYPE	PRE-2009 NQF LEVEL	NQF LEVEL	CREDITS
Undefined	Regular	Level 1	NQF Level 01	2
REGISTRATION STATUS		REGISTRATION START DATE	REGISTRATION END DATE	SAQA DECISION NUMBER
Reregistered		2012-07-01	2015-06-30	SAQA 0695/12
LAST DATE FOR ENROLMENT		LAST DATE FOR ACHIEVEMENT		
2016-06-30		2019-06-30		

In all of the tables in this document, both the pre-2009 NQF Level and the NQF Level is shown. In the text (purpose statements, qualification rules, etc), any references to NQF Levels are to the pre-2009 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 should be able to apply basic physical farm layout tasks, including the construction of infrastructure for the specific farm system, environment and enterprise.

LEARNING ASSUMED TO BE IN PLACE AND RECOGNITION OF PRIOR LEARNING

It is assumed that a learner attempting this unit standard will show competence against the following unit standards or equivalent:

- NQF 1: Understand how sustainable farming systems conserve natural resources.
- NQF 1: Demonstrate an understanding of the basic concepts of sustainable farming systems.

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**

Recognise veld, planted pasture and arable land, and understand the need to fence vegetation types separately.

OUTCOME RANGE

Assess vegetation type and slope, as well as current and past land use.

ASSESSMENT CRITERIA**ASSESSMENT CRITERION 1**

The main natural resources in the local area are identified, and alien plants or weeds that occur and need to be controlled are recognised.

ASSESSMENT CRITERION 2

Point out structures that should be erected and respected to conserve the natural resources, and not to contribute to degradation over time.

SPECIFIC OUTCOME 2

The animal life, the impact of farm animals and humans are recognised and the need for the conservation of related natural resources in the layout of the farm is understood.

ASSESSMENT CRITERIA**ASSESSMENT CRITERION 1**

The main animal species and/or livestock in the local area are identified, and those that occur and need to be cared for or controlled are recognised.

ASSESSMENT CRITERION 2

Structures that should be erected and respected to conserve the natural resources are pointed out.

ASSESSMENT CRITERION 3

An understanding of the reciprocal effect of the natural environment, animals and humans in the use of structures not to contribute, over time, to degradation is demonstrated.

SPECIFIC OUTCOME 3

The need to plan the farm and infrastructure to limit the impact on natural resources and ensure sustainable resources use are recognised.

OUTCOME RANGE

Only the elementary physical characteristics of natural resources of importance in relation to infrastructure.

ASSESSMENT CRITERIA**ASSESSMENT CRITERION 1**

An understanding of the reciprocal effect of the natural environment, animals and humans is demonstrated.

ASSESSMENT CRITERION 2

An understanding of the placement of structures and its use not to contribute to degradation of the environment over time is demonstrated.

SPECIFIC OUTCOME 4

Construct prevention structures and elementary infrastructure as planned for farm layout.

OUTCOME RANGE

Understand the need for elementary structures and proper placement to prevent damage to the structures and degradation to the environment.

ASSESSMENT CRITERIA

ASSESSMENT CRITERION 1

An elementary structure is measured and constructed.

ASSESSMENT CRITERION 2

Structures are placed in position and basic principles and reasoning for conservation are explained.

ASSESSMENT CRITERION 3

An understanding for stabilizing structures under extreme circumstances is demonstrated.

SPECIFIC OUTCOME 5

Maintain prevention structures and report major problems to a supervisor.

OUTCOME RANGE

Degradation and erosion of natural resources and sources for degradation in nature include, but are not restricted to, wind and water. Prevention measures by using structures.

ASSESSMENT CRITERIA

ASSESSMENT CRITERION 1

The ability to identify and deal with minor degradation or erosion problems is demonstrated.

ASSESSMENT CRITERION 2

An understanding of required reporting procedures to the supervisor is demonstrated.

ASSESSMENT CRITERION 3

Elementary maintenance tasks to structures are demonstrated.

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:

- Follow instructions to carry out routine tasks relating to sustainable land-use practices and soil erosion prevention measures.
- Distinguish between infrastructure applications and soil erosion prevention measures that are fully functional and those that have minor faults, and report these to a supervisor.
- Carry out minor repairs to infrastructure applications and soil erosion prevention measures under supervision.

UNIT STANDARD DEVELOPMENTAL OUTCOME

N/A

UNIT STANDARD LINKAGES

N/A

Critical Cross-field Outcomes (CCFO):

UNIT STANDARD CCFO IDENTIFYING

Problem Solving: relates to specific outcomes:

- Recognise veld types, planted pasture and arable land, and understand the need for the conservation of the related natural resources in the layout of the farm.
- Recognise the animal life, the impact of farm animals and humans and understand the need for the conservation of related natural resources in the layout of the farm.
- Recognise the need to plan infrastructure to limit the impact on natural resources and ensure sustainable resource use.
- Construct prevention structures and elementary infrastructure as planned for farm layout.

UNIT STANDARD CCFO ORGANISING

Self-management: relates to specific outcomes:

- Recognise veld types, planted pasture and arable land, and understand the need for the conservation of the related natural resources in the layout of the farm.
- Recognise the animal life, the impact of farm animals and humans and understand the need for the conservation of related natural resources in the layout of the farm.
- Recognise the need to plan infrastructure to limit the impact on natural resources and ensure sustainable resource use.
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UNIT STANDARD CCFO COLLECTING

Interpreting Information: relates to specific outcomes:

- Recognise veld types, planted pasture and arable land, and understand the need for the conservation of the related natural resources in the layout of the farm.
- Recognise the animal life, the impact of farm animals and humans and understand the need for the conservation of related natural resources in the layout of the farm.

- Recognise the need to plan infrastructure to limit the impact on natural resources and ensure sustainable resource use.
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UNIT STANDARD CCFO COMMUNICATING

Communication: relates to specific outcome:

- Construct prevention structures and elementary infrastructure as planned for farm layout.

UNIT STANDARD CCFO CONTRIBUTING

Self-development: relates to specific outcomes:

- Recognise veld types, planted pasture and arable land, and understand the need for the conservation of the related natural resources in the layout of the farm.
- Recognise the animal life, the impact of farm animals and humans and understand the need for the conservation of related natural resources in the layout of the farm.
- Recognise the need to plan infrastructure to limit the impact on natural resources and ensure sustainable resource use.
- Construct prevention structures and elementary infrastructure as planned for farm layout.

QUALIFICATIONS UTILISING THIS UNIT STANDARD:

	ID	QUALIFICATION TITLE	PRE-2009 NQF LEVEL	NQF LEVEL	STATUS	END DATE	QUALITY ASSURING BODY
Core	48970	National Certificate: Animal Production	Level 1	NQF Level 01	Reregistered	2015-06-30	AgriSETA
Core	48971	National Certificate: Mixed Farming Systems	Level 1	NQF Level 01	Reregistered	2015-06-30	AgriSETA
Core	48972	National Certificate: Plant Production	Level 1	NQF Level 01	Reregistered	2015-06-30	AgriSETA