SOUTH AFRICAN QUALIFICATIONS AUTHORITY
REGISTERED UNIT STANDARD:

Implement integrated farm layout and site selection

SAQA US ID	UNIT STANDARD TITLE				
116309	Implement integrated farm layout and site selection				
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**	**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 contribute to the natural resource data gathering process, assist in determining the most appropriate and sustainable land-use for different parts of the land, supervise the implementation and maintenance of the selected infrastructure and maintain the most appropriate land-use on a farm by continuously assessing the natural resource base.

LEARNING ASSUMED TO BE IN PLACE AND RECOGNITION OF PRIOR LEARNING

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

- NQF 3: Assist in farm planning and layout for conservation and rainwater harvesting.

- NQF 3: Monitor and supervise a food safety and quality management system in the agricultural supply chain.

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

Prepare and categorise collected and recorded information in an agricultural environment to support the infrastructure development of an agricultural enterprise.

OUTCOME RANGE

Infrastructure development may refer to intensive or extensive crop and animal systems, as well as aquaculture and/or horticultural production systems. Data could be collected in a range of forms that include computer, pen and paper, peg board, diagrams, comprehensive farm plans, etc. and can be entered in formats such as tables, graphs, simple markings, maps, etc. Service providers in the agricultural environment include government, non-government, parastatal or other organisations, which render services related to the sustainable use of natural resources.

ASSESSMENT CRITERIA

ASSESSMENT CRITERION 1

A useable and relevant database of service providers and information is compiled.

ASSESSMENT CRITERION 2

The contribution of information on soil, climate and slope to land capability analysis and the development of a land use plan is explained.

SPECIFIC OUTCOME 2

Demonstrate the ability to identify high and low yield potential areas according to a range of land use options and criteria.

OUTCOME RANGE

The land use options may refer to intensive or extensive crop and animal systems, as well as aquaculture and/or horticultural production systems.

ASSESSMENT CRITERIA

ASSESSMENT CRITERION 1

Land use plans are implemented.

ASSESSMENT CRITERION 2

The use of natural resources in a sustainable way is planned.

ASSESSMENT CRITERION 3

Soil and water conservation processes is incorporated in a planning process.

SPECIFIC OUTCOME 3

Organise and plan infrastructure maintenance tasks related to the natural resource base of a farm, including the supervision of other workers.

OUTCOME RANGE

Routine tasks may include the repair of items such as roads, fencing, rainwater harvesting structures, and the equipment required to execute such tasks. It may also include the supervision of staff and the setting up of monitoring systems.

ASSESSMENT CRITERIA

ASSESSMENT CRITERION 1

The correct tools required to execute tasks and ensure that these are in good working order is identified.

ASSESSMENT CRITERION 2

The necessary repairs in order for infrastructure to be working efficiently is identified.

ASSESSMENT CRITERION 3

Clear instructions are given to supervised staff and workers' execution of instructions are monitored.

ASSESSMENT CRITERION 4

The basic requirements of a quality management system is explained.

SPECIFIC OUTCOME 4

Demonstrate the ability to monitor and maintain sustainability-based farm layout innovations that have been implemented in an agricultural environment as part of a land use plan.

OUTCOME RANGE

The maintenance and monitoring includes but is not restricted to soil erosion prevention measures, soil management strategies and rainwater harvesting and management innovations.

ASSESSMENT CRITERIA

ASSESSMENT CRITERION 1

Constructed infrastructure such as earth works and either repair or report faults is monitored, as appropriate.

ASSESSMENT CRITERION 2

Accurate record of information using, but not limited to, computers, pen and paper, peg board, etc., is compiled and entered in formats such as tables, graphs, simple markings, etc.

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:
• The different options applied in land use.

Intermediate Knowledge

The person is able to demonstrate a basic knowledge of:
• The differentiations between high and low yield aspects of a landscape.
• Methods of data gathering and information presentation (e.g. graphs, etc.).
• The sustainable use of natural resources in an agricultural environment.
• The causes and consequences of soil erosion.

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:
• Organise and plan maintenance tasks related to the natural resource base of a farm, including the supervision of other workers.
• Monitor and maintain sustainability-based farm layout innovations that have been implemented in an agricultural environment as part of a land use plan.

UNIT STANDARD CCFO WORKING

Teamwork: relates to specific outcomes:

- Prepare and categorise collected and recorded information in an agricultural environment that informs the infrastructure development of an agricultural enterprise.
- Organise and plan maintenance tasks related to the natural resource base of a farm, including the supervision of other workers.

UNIT STANDARD CCFO ORGANISING

Self-management: relates to all specific outcomes.

UNIT STANDARD CCFO COLLECTING

Interpreting Information: relates to all specific outcomes.

UNIT STANDARD CCFO COMMUNICATING

Communication: relates to specific outcomes:
- Prepare and categorise collected and recorded information in an agricultural environment that informs the infrastructure development of an agricultural enterprise.
- Demonstrate the ability to identify high and low yield potential areas according to a range of land use options and criteria.
- Organise and plan maintenance tasks related to the natural resource base of a farm, including the supervision of other workers.

UNIT STANDARD CCFO SCIENCE

Use Science and Technology: relates to specific outcomes:
- Prepare and categorise collected and recorded information in an agricultural environment that informs the infrastructure development of an agricultural enterprise.
- Organise and plan maintenance tasks related to the natural resource base of a farm, including the supervision of other workers.
- Monitor and maintain sustainability-based farm layout innovations that have been implemented in an agricultural environment as part of a land use plan.

UNIT STANDARD CCFO DEMONSTRATING

The world as a set of related systems: relates to specific outcomes:
- Demonstrate the ability to identify high and low yield potential areas according to a range of land use options and criteria.
- Organise and plan maintenance tasks related to the natural resource base of a farm, including the supervision of other workers.
- Monitor and maintain sustainability-based farm layout innovations that have been implemented in an agricultural environment as part of a land use plan.

UNIT STANDARD CCFO CONTRIBUTING

Self-development: 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: