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

Develop and manage a data collection plan to support an agricultural enterprise

SAQA US ID	UNIT STANDARD TITLE			
116412	Develop and manage a data collection plan to support an agricultural enterprise			
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 5	Level TBA: Pre-2009 was L5	4
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

The learner achieving this unit standard will be able to develop and manage a data collection plan in the agricultural sector. The learner will be able to choose appropriate experimental designs, analyse, interpret and evaluate agricultural data and will also be able to develop implementation plans from findings of evaluation.

In addition to this, the learner will be able to recognise, interpret and report on a range of deviations in data collection processes and make recommendations based on these findings.

Learners will be well positioned to extend their learning and practice into other areas of information management and dissemination in the agricultural sector. Competent learners will understand the value of accurate data collection to the agricultural sector and be able to implement best practices in the area of information gathering.

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 unit standards or equivalent:

- NQF 4: Implement a Data Collection Plan.
- NQF 4: Give an overview of the industry structure.

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

Select appropriate experimental designs as required by the agricultural enterprise.

OUTCOME RANGE

Experimental designs refer to the evaluation of various methodologies for the collection and manipulation of data to provide information for management or production purposes such as computer technology, paper and source document management systems, physical data collection techniques ranging from pencil and other physical tools, measuring instrumentation such as thermometers, barometers and rain gauges, through to automatic data logging devices and newer technology such as is required by precision farming methodologies and equipment.

ASSESSMENT CRITERIA

ASSESSMENT CRITERION 1

A range of experimental designs is appraised.

ASSESSMENT CRITERION 2

The most appropriate experimental designs are recommended for a range of contexts.

ASSESSMENT CRITERION 3

The most appropriate criteria, characteristics and/or type of data to be collected are composed.

ASSESSMENT CRITERION 4

A data collection plan is created.

SPECIFIC OUTCOME 2

Manage the implementation of data collection plans.

OUTCOME RANGE

All relevant data related to agriculture and agricultural research.

ASSESSMENT CRITERIA

ASSESSMENT CRITERION 1

The on-going progress of data collection is monitored.

ASSESSMENT CRITERION 2

Health and safety practices are adhered to.

ASSESSMENT CRITERION 3

Irregularities are identified and rectified.

ASSESSMENT CRITERION 4

Technical advice and support is provided for other workers.

SPECIFIC OUTCOME 3

Interpret data collection reports and make recommendations based on findings.

OUTCOME RANGE

All relevant data related to agriculture and agricultural research.

ASSESSMENT CRITERIA**ASSESSMENT CRITERION 1**

An in-depth analysis of data is done.

ASSESSMENT CRITERION 2

A comprehensive report is compiled.

ASSESSMENT CRITERION 3

Report findings are assessed and recommendations made to the relevant sector.

ASSESSMENT CRITERION 4

Recommendations are, if relevant, incorporated into future practices.

SPECIFIC OUTCOME 4

Manage a data gathering team.

ASSESSMENT CRITERIA**ASSESSMENT CRITERION 1**

The personnel policy of the organisation is identified and interpreted.

ASSESSMENT CRITERION 2

Best practices for staff management are applied, in accordance with the organisation's policy.

ASSESSMENT CRITERION 3

Staff members at lower levels are provided with support and mentoring.

ASSESSMENT CRITERION 4

Work is done at optimum efficiency.

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 an advanced knowledge of:

- Selection and application of data collecting methods.
- Analysing and evaluating data.
- Organising data to develop implementation plans.
- Presentation methods.
- Human resource management.
- Business management principles.

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 WORKING

Teamwork 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.

UNIT STANDARD CCFO SCIENCE

Use science and technology relates to all specific outcomes.

UNIT STANDARD CCFO DEMONSTRATING

Inter-relatedness of systems relates to all specific outcomes.

UNIT STANDARD CCFO CONTRIBUTING

Self-development relates to all specific outcomes.

QUALIFICATIONS UTILISING THIS UNIT STANDARD:

	ID	QUALIFICATION TITLE	PRE-2009 NQF LEVEL	NQF LEVEL	STATUS	END DATE	QUALITY ASSURING BODY
Core	59409	National Certificate: Agricultural Extension	Level 5	Level TBA: Pre-2009 was L5	Reregistered	2015-06-30	AgriSETA
Core	63249	National Diploma: Agricultural Extension	Level 5	NQF Level 05	Reregistered	2015-06-30	AgriSETA
Fundamental	49011	National Diploma: Animal Production	Level 5	NQF Level 05	Reregistered	2015-06-30	AgriSETA
Fundamental	49010	National Diploma: Plant Production	Level 5	NQF Level 05	Reregistered	2015-06-30	AgriSETA