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

**Collect agricultural data**

|  |                            |                                  |                              |                             |
|--|----------------------------|----------------------------------|------------------------------|-----------------------------|
| <b>SAQA US ID</b>                              | <b>UNIT STANDARD TITLE</b> |                                  |                              |                             |
| 116156   | Collect agricultural data  |                                  |                              |                             |
| <b>ORIGINATOR</b>                              |                            | <b>ORIGINATING PROVIDER</b>      |                              |                             |
| SGB Primary Agriculture                        |                            |                                  |                              |                             |
| <b>QUALITY ASSURING BODY</b>                   |                            |                                  |                              |                             |
| -  |                            |                                  |                              |                             |
| <b>FIELD</b>                                   |                            |                                  | <b>SUBFIELD</b>              |                             |
| Field 01 - Agriculture and Nature Conservation |                            |                                  | Primary Agriculture          |                             |
| <b>ABET BAND</b>                               | <b>UNIT STANDARD TYPE</b>  | <b>PRE-2009 NQF LEVEL</b>        | <b>NQF LEVEL</b>             | <b>CREDITS</b>              |
| Undefined                                      | Regular                    | Level 1                          | NQF Level 01                 | 2                           |
| <b>REGISTRATION STATUS</b>                     |                            | <b>REGISTRATION START DATE</b>   | <b>REGISTRATION END DATE</b> | <b>SAQA DECISION NUMBER</b> |
| Reregistered                                   |                            | 2012-07-01                       | 2015-06-30                   | SAQA 0695/12                |
| <b>LAST DATE FOR ENROLMENT</b>                 |                            | <b>LAST DATE FOR ACHIEVEMENT</b> |                              |                             |
| 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 collect routine agricultural data on instruction and will also be able to apply prescribed methods of data collection for agricultural purposes. In addition the learner will be well positioned to extend their learning and practice into more complex areas of data collection.

Competent learners will be fully conversant with a narrow range of data collection procedures and contribute to the agricultural landscape in this regard.

Learners will understand the importance of the application of business principles in agricultural production with specific reference to information systems and technology.

They will be able to operate farming practices as businesses and will gain the knowledge and skills to move from a subsistence orientation to an economic orientation in agriculture. Farmers will gain the knowledge and skills to access mainstream agriculture through a business-oriented approach to agriculture.

**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 standard:

- Functional literacy and numeracy.
- NQF 1: Select, use and care for hand tools and basic equipment and infrastructure

### **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**

Demonstrate knowledge of different elementary methods of data collection.

#### **OUTCOME RANGE**

Different methods may include, but are not restricted to: interpreting a gauge, measuring, observing, collecting samples, counting, and scouting.

### **ASSESSMENT CRITERIA**

#### **ASSESSMENT CRITERION 1**

Different methods of data collection are described correctly.

#### **ASSESSMENT CRITERION 2**

The advantages and disadvantages of different methods are described.

### **SPECIFIC OUTCOME 2**

Collect and report on collected agricultural data by using prescribed collection methods.

#### **OUTCOME RANGE**

Agricultural data may include, but is not limited to: biological, physical and economical data, such as pests, diseases, agro-chemicals, crops, stock, economic, and maintenance information.

### **ASSESSMENT CRITERIA**

#### **ASSESSMENT CRITERION 1**

The prescribed data collection methods are applied used correctly.

#### **ASSESSMENT CRITERION 2**

Data is collected accurately.

#### **ASSESSMENT CRITERION 3**

The required reporting format is applied.

#### **ASSESSMENT CRITERION 4**

Basic deviances in data are identified, noted and reported.

### **SPECIFIC OUTCOME 3**

Use and maintain data collection equipment correctly.

## **OUTCOME RANGE**

Recording tools may include, but are not restricted to pen and paper, voice recorders, electronic tools, pin boards, and colour codes.

## **ASSESSMENT CRITERIA**

### **ASSESSMENT CRITERION 1**

Correct use of data collection equipment is explained.

### **ASSESSMENT CRITERION 2**

Correct method of storage of the data collection equipment is explained.

### **ASSESSMENT CRITERION 3**

Minor repairs to the data collection equipment are performed correctly.

### **ASSESSMENT CRITERION 4**

Collection equipment is cleaned correctly.

## **SPECIFIC OUTCOME 4**

Apply health and safety measures applicable to the collection method and equipment.

## **ASSESSMENT CRITERIA**

### **ASSESSMENT CRITERION 1**

Health and safety measures required for the safe collection of data are explained.

### **ASSESSMENT CRITERION 2**

Appropriate protective garments and tools are used during data collection.

### **ASSESSMENT CRITERION 3**

Applicable hygiene standards are maintained throughout the process of data collection.

## **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 qualifying learner is able to demonstrate a basic knowledge and understanding of:

- Different methods of data collection.
- Different methods of recording data.
- Different methods of presenting data.
- The names and functions of data collection tools and equipment.
- The descriptions and properties of the source of the data being collected.
- The description and properties of the data collection equipment.
- Sensory cues related to the measurement of the data, the data collection equipment and the source of the data.
- The purpose for learning about Information technology.
- The purpose of the data being collected.
- The correct procedures for collecting the data.
- All relevant rules, laws and regulations related to the source of the data and the data itself.
- The relationship between the data and information generated by it.

### **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:

- Demonstrate knowledge of different elementary methods of data collection.
- Apply methods of recording collected data using various types of technology.
- Use and maintain data collection equipment correctly.
- Apply health and safety measures applicable to the collection method and equipment.

### **UNIT STANDARD CCFO WORKING**

Teamwork relates to specific outcome:

- Collect and report on collected agricultural data by using prescribed collection methods.

### **UNIT STANDARD CCFO ORGANISING**

Self-organisation and management relates to specific outcomes:

- Collect and report on collected agricultural data by using prescribed collection methods.
- Apply methods of recording collected data using various types of technology.
- Use and maintain data collection equipment correctly.

- Apply health and safety measures applicable to the collection method and equipment.

### **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 specific outcomes:

- Use and maintain data collection equipment correctly.
- Apply health and safety measures applicable to the collection method and equipment.

### **UNIT STANDARD CCFO CONTRIBUTING**

Self-development relates to specific outcomes

- Demonstrate knowledge of different elementary methods of data collection.
- Apply methods of recording collected data using various types of technology.
- Apply health and safety measures applicable to the collection method and equipment.

### **QUALIFICATIONS UTILISING THIS UNIT STANDARD:**

|             | <b>ID</b>             | <b>QUALIFICATION TITLE</b>                  | <b>PRE-2009 NQF LEVEL</b> | <b>NQF LEVEL</b> | <b>STATUS</b> | <b>END DATE</b> | <b>QUALITY ASSURING BODY</b> |
|-------------|-----------------------|---|---------------------------|------------------|---------------|-----------------|------------------------------|
| Core        | <a href="#">48972</a> | National Certificate: Plant Production      | Level 1                   | NQF Level 01     | Reregistered  | 2015-06-30      | AgriSETA                     |
| Fundamental | <a href="#">48970</a> | National Certificate: Animal Production     | Level 1                   | NQF Level 01     | Reregistered  | 2015-06-30      | AgriSETA                     |
| Fundamental | <a href="#">48971</a> | National Certificate: Mixed Farming Systems | Level 1                   | NQF Level 01     | Reregistered  | 2015-06-30      | AgriSETA                     |