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

**Apply advanced breeding practices for farm animals**

<b>SAQA US ID</b>	<b>UNIT STANDARD TITLE</b>			
116216	Apply advanced breeding practices for farm animals			
<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 3	NQF Level 03	4
<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 use and apply advanced breeding practices, such as breeding practices and use of reproductive cycles, in farm animals.

Learners will gain specific knowledge and skills in animal husbandry and will be able to operate in an animal production environment implementing sustainable and economically viable production principles.

They will be capacitated to gain access to the mainstream agricultural sector, in animal production, impacting directly on the sustainability of the sub-sector. The improvement in production technology will also have a direct impact on the improvement of agricultural productivity of the sector.

The profession will benefit in general by having learners trained in the field of breeding, which will contribute to the performance and productivity of the enterprise.

**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 following unit standards or equivalent:

- NQF 2: Observe and Inspect Animal Health.
- NQF 2: Identify basic breeding practices for farm animals.
- NQF 2: Evaluate external animal anatomy and morphology.

### **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**

Identify and classify the signs of giving birth and problem births in female breeding animals.

#### **OUTCOME RANGE**

Breeding animals may include but are not limited to cattle, sheep, goats, pigs, horses, poultry, game, fish and other as related to the context of operation.

### **ASSESSMENT CRITERIA**

#### **ASSESSMENT CRITERION 1**

Signs of the normal birth process are identified and classified in a group of female breeding animals.

#### **ASSESSMENT CRITERION 2**

Birth problems are classified and the level of assistance with such problems is correctly determined.

#### **ASSESSMENT CRITERION 3**

Signs of any abnormal behaviour in the birth process is recognised and recorded.

#### **ASSESSMENT CRITERION 4**

Animals that are observed to have completed parturition and those that had birth problems are identified and recorded.

#### **ASSESSMENT CRITERION 5**

Basic assistance to the animals that are having birth problems are rendered.

### **SPECIFIC OUTCOME 2**

Demonstrate an understanding of the different breeding methods in farm animals.

#### **OUTCOME RANGE**

Farm animals may include, but is not limited to, cattle, sheep, goats, pigs, horses, poultry, game and fish as related to the context of operation. Breeding methods include group breeding, hand breeding, artificial inseminations and other as related to the context of operation.

### **ASSESSMENT CRITERIA**

#### **ASSESSMENT CRITERION 1**

The different breeding methods of farm animals are explained.

**ASSESSMENT CRITERION 2**

Appropriate breeding methods are applied.

**ASSESSMENT CRITERION 3**

Advantages and disadvantages of a breeding method are explained according to the enterprise.

**SPECIFIC OUTCOME 3**

Demonstrate an understanding of the basic reproductive cycles of farm animals.

**OUTCOME RANGE**

Farm animals may include but are not limited to cattle, sheep, goats, pigs, horses, poultry, game, and fish as related to the context of operation.

**ASSESSMENT CRITERIA****ASSESSMENT CRITERION 1**

Oestrus cycles of female farm animals are described and explained.

**ASSESSMENT CRITERION 2**

The length of the oestrus cycle in the different species of farm animals are defined and compared.

**ASSESSMENT CRITERION 3**

The significance of oestrus cycles is explained and applied to a breeding programme.

**ASSESSMENT CRITERION 4**

The reproductive cycles of male farm animals are explained and integrated into the breeding programme.

**SPECIFIC OUTCOME 4**

Define the factors affecting the reproductive cycles of farm animals.

**OUTCOME RANGE**

Farm animals may include but are not limited to cattle, sheep, goats, pigs, horses, poultry, game, and fish as related to the context of operation.

**ASSESSMENT CRITERIA****ASSESSMENT CRITERION 1**

The nutritional factors influencing reproductive cycles are identified and explained.

**ASSESSMENT CRITERION 2**

The influence of the health status of the animal on reproductive cycles is explained and defined.

**ASSESSMENT CRITERION 3**

The seasonal effects on the reproductive cycles is described and illustrated.

**ASSESSMENT CRITERION 4**

The effect of environmental factors on the reproductive cycles is identified and explained.

**ASSESSMENT CRITERION 5**

Factors affecting the reproductive cycles of farm animals are integrated into the breeding programme of the enterprise.

## **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:

- Reproductive cycles and breeding methods.
- Factors affecting the reproductive cycles of farm animals.
- The advantages and disadvantages of different breeding methods.
- The effect of nutritional, health, seasonal and environmental factors on reproduction.
- Breeding procedures and breeding programmes.
- Purpose of this is to improve knowledge and inclusion of reproductive cycles and breeding methods into a breeding programme.
- Communication and reporting skills.
- Record keeping skills.
- Understanding the correct procedures and policies to be followed for the breeding season.

## **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 outcomes.

### **UNIT STANDARD CCFO WORKING**

Teamwork: Relates to all outcomes.

### **UNIT STANDARD CCFO ORGANISING**

Self-Management: Relates to all outcomes.

### **UNIT STANDARD CCFO COLLECTING**

Information Evaluation: Relates to all outcomes.

### **UNIT STANDARD CCFO COMMUNICATING**

Communication: Relates to all outcomes.

### **UNIT STANDARD CCFO SCIENCE**

Use of Science and Technology: Relates to all outcomes.

### **UNIT STANDARD CCFO DEMONSTRATING**

Interrelatedness of systems: Relates to all outcomes.

### **UNIT STANDARD CCFO CONTRIBUTING**

Self-development: Relates to all outcomes.

### **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="#">49048</a>	National Certificate: Animal Production	Level 3	NQF Level 03	Reregistered	2015-06-30	AgriSETA