

## CARRY OUT SHEEP PRODUCTION

**UNIT CODE:** 0811 351 11A

**TVET CDACC UNIT CODE:** AGR/OS/AP/CR/05/4/MA

### UNIT DESCRIPTION

This unit specifies competencies required to carry out sheep production. It involves constructing sheep structures, carrying out sheep feeding, carrying out sheep breeding, carrying out lamb management, performing sheep routine management practices and marketing sheep products.

### ELEMENTS AND PERFORMANCE CRITERIA

| <b>ELEMENT</b>                                                    | <b>PERFORMANCE CRITERIA</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| These describe the key outcomes which make up workplace function. | These are assessable statements which specify the required level of performance for each of the elements.<br><i><b>Bold and italicized terms are elaborated in the Range.</b></i>                                                                                                                                                                                                                                                                                                                                                                    |
| 1. Construct sheep structures                                     | 1.1 Tools, equipment and materials are assembled as per work requirements<br>1.2 Site of sheep structures is selected based on LPM<br>1.3 Sheep structures are designed according to Livestock Production Manual (LPM)<br>1.4 Sheep structures are constructed based on livestock production manual<br>1.5 Sheep structures are maintained as per workplace procedures<br>1.6 Sheep structures construction and maintenance records are kept as per workplace requirements<br>1.7 Waste is managed according to environmental protection regulations |
| 2. Carry out Sheep feeding                                        | 2.1 Tools, equipment and materials are assembled as per work requirements<br>2.2 Sheep feeds are identified as per the nutritional requirements<br>2.3 2.3 Basal rations at various physiological stage are provided based on feeding plan.                                                                                                                                                                                                                                                                                                          |

| ELEMENT                                                           | PERFORMANCE CRITERIA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| These describe the key outcomes which make up workplace function. | These are assessable statements which specify the required level of performance for each of the elements.<br><b><i>Bold and italicized terms are elaborated in the Range.</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                   | 2.4 Feed supplements are offered according to animal dietary requirements<br>2.5 Grazing management is identified and practiced<br>2.6 Grazing capacity of the pasture is determined based on pasture land condition<br>2.7 Feed intake is evaluated as per the LPM<br>2.8 Feed conversion efficiency is evaluated based on productivity<br>2.9 Sheep feeding record is generated as per the workplace procedures<br>2.10 Waste is managed according to environmental protection regulations                                                                                                                                                                                                                                                                                    |
| 3. Carry out sheep breeding                                       | 3.1 Breeding management tools, equipment and materials are assembled in accordance with LPM<br>3.2 <b><i>Sheep breeds</i></b> are identified based on LPM<br>3.3 Sheep breeds are selected based on traits of economic importance and farmer requirements<br>3.4 Ewes on heat are detected based on LPM<br>3.5 Flushing is carried out as per LPM<br>3.6 Raddling is carried out based on GAPs<br>3.7 Crutching and ringing are carried out based on GAPs<br>3.8 Service is performed based on the <b><i>breeding method and technologies</i></b> as per the LPM<br>3.9 Pregnant ewes are provided care based on the LPM<br>3.10 Steaming-up is carried out based on LPM<br>3.11 Lambing is managed as per the LPM<br>3.12 Breeding records are prepared as per work procedures |
| 4. Carry out lamb management                                      | 4.1 4.1 Lamb is handled at birth according to instructions in the LPM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

| ELEMENT                                                           | PERFORMANCE CRITERIA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| These describe the key outcomes which make up workplace function. | These are assessable statements which specify the required level of performance for each of the elements.<br><b><i>Bold and italicized terms are elaborated in the Range.</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                   | 4.2 Lamb is fed colostrum according to the LPM<br>4.3 Orphaned lambs are fostered according to LPM<br>4.4 Lamb is identified using suitable method in accordance with LPM, animal welfare regulations and work place policy<br>4.5 Docking is performed according to animal welfare regulations and work place policy<br>4.6 Lamb is weighed in accordance with LPM instructions and work place policy<br>4.7 Lamb growth rate is monitored as per LPM<br>4.8 Waste is managed and disposed based on environmental protection regulations                                                                                                                                                                                            |
| 5. Perform sheep routine management practices                     | 5.1 <b><i>Sheep identification method</i></b> is selected based on GAPs<br>5.2 <b><i>Sheep castration</i></b> is performed based on GAPs<br>5.3 Sheep overgrown hooves are trimmed based on GAPs<br>5.4 Wiggling is performed based on GAPs<br>5.5 Shearing is performed based on GAPs<br>5.6 Culling is performed based on workplace policy<br>5.7 Internal and external parasites are controlled based on LPM and GAPs<br>5.8 Vaccination is performed as per workplace policy, manufacturer's instructions and LPM<br>5.9 Isolation/ quarantine is carried out to control notifiable diseases based on GAPs<br>5.10 Sheep are provided with clean water ad-libitum as per LPM<br>5.11 Records are prepared as per work procedures |
| 6. Market sheep products                                          | 6.1 Market survey is conducted based on Standard Survey guidelines<br>6.2 Sheep is classified as per products                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

| <b>ELEMENT</b>                                                    | <b>PERFORMANCE CRITERIA</b>                                                                                                                                                                          |
|-------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| These describe the key outcomes which make up workplace function. | These are assessable statements which specify the required level of performance for each of the elements.<br><i><b>Bold and italicized terms are elaborated in the Range.</b></i>                    |
|                                                                   | 6.3 Sheep is transported to the market based on Animal Welfare Act<br>6.4 Sheep products are sold based on market requirements<br>6.5 Marketing records are maintained based on workplace guidelines |

### **RANGE OF VARIABLES**

This section provides work environments and conditions to which the performance criteria apply. It allows for different work environments and situations that will affect performance.

| <b>RANGE</b>                                                        | <b>VARIABLE</b>                                                                                                                                                                                                        |
|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Sheep breeds may include but not limited to:                     | <ul style="list-style-type: none"> <li>• Hampshire Sheep</li> <li>• Dorset Sheep</li> <li>• Merino Sheep</li> <li>• Corriedale Sheep</li> <li>• Maasai sheep</li> <li>• Doper</li> <li>• Black head Persian</li> </ul> |
| 2. Breeding method and technologies may include but not limited to: | <ul style="list-style-type: none"> <li>• Artificial insemination</li> <li>• Natural method</li> <li>• Embryo transfer</li> <li>• Surrogate</li> <li>• Signs of heat</li> <li>• Estrus synchronization</li> </ul>       |
| 3. Sheep identification method may                                  | <ul style="list-style-type: none"> <li>• Ear Tagging</li> <li>• Ear Notching</li> <li>• Neck Chains or Straps</li> </ul>                                                                                               |

| RANGE                                               | VARIABLE                                                                                             |
|-----------------------------------------------------|------------------------------------------------------------------------------------------------------|
| include but not limited to:                         |                                                                                                      |
| 4. Sheep castration may include but not limited to: | <ul style="list-style-type: none"> <li>• Closed castration</li> <li>• Surgical Castration</li> </ul> |

## REQUIRED SKILLS AND KNOWLEDGE

This section describes the skills and knowledge required for this unit of competency.

### Required Skills

The individual needs to demonstrate the following skills:

- Communication
- Analytical
- Evaluation
- Management
- Problem solving
- Time management
- Data collection
- Numeracy
- Observation
- Negotiation
- Digital literacy
- Equipment calibration

### Required knowledge

The individual needs to demonstrate knowledge of:

- Principles of animal production
- Sheep selection and breeding
- Sheep nutrition
- Parasite and disease management in sheep
- Sheep products

- Wool shearing
- Sheep docking
- Sheep production records

## EVIDENCE GUIDE

This provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge and range.

|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Critical aspects of competency | <p>3. Assessment requires evidence that the candidate:</p> <p>1.1 Selected site of sheep structures based on LPM</p> <p>1.2 Constructed sheep structures based on livestock production manual</p> <p>1.3 Kept records as per workplace requirements</p> <p>1.4 Managed waste according to environmental protection regulations</p> <p>1.5 Provided Basal rations at various physiological stage based on feeding plan.</p> <p>1.6 Evaluated feed intake as per the LPM</p> <p>1.7 Evaluated feed conversion efficiency based on productivity</p> <p>1.8 Identified Sheep breeds based on LPM</p> <p>1.9 Performed breeding method and technologies service based on the s as per the LPM</p> <p>1.10 Provided pregnant ewes care based on the LPM</p> <p>1.11 Managed lambing as per the LPM</p> <p>1.12 Fostered orphaned lambs according to LPM</p> <p>1.13 Selected Sheep identification method based on GAPs</p> <p>1.14 Controlled internal and external parasites based on LPM and GAPs</p> |
| 2. Resource implication           | <p>The following resources should be provided:</p> <p>2.1 Tools, equipment and machineries</p> <p>2.2 Materials and supplies</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

|                                        |                                                                                                                                                                                   |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3. Method of assessment                | <p>Competency in this unit may be assessed through:</p> <p>3.1 Written tests</p> <p>3.2 Questionnaires</p> <p>3.3 Oral questioning</p> <p>3.4 Projects</p> <p>3.5 Observation</p> |
| 4. Context of assessment               | <p>4.1 Competency elements must be assessed in a safe working environment</p> <p>4.2 Assessment may be conducted in a workplace or simulated environment</p>                      |
| 5. Guidance information for assessment | <p>Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended.</p>                                                               |