

## CARRY OUT GOAT PRODUCTION

**UNIT CODE:** 0811 351 12A

**TVET CDACC UNIT CODE:** AGR/OS/AP/CR/06/4/MA

### UNIT DESCRIPTION

This unit specifies competencies required to carry out goat production. It involves constructing goat structures, carrying out goat breeding, carrying out goat feeding, performing goat routine management practices, carrying out kid management and marketing goat 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. <b><i>Bold and italicized terms are elaborated in the Range.</i></b>
1. Construct goat structures	1.1 Tools, equipment and materials are assembled as per work requirements 1.2 Site of goat structures is selected based on LPM 1.3 Goat structures are designed according to Livestock Production Manual (LPM) 1.4 Goat structures are constructed based on livestock production manual 1.5 Goat structures are maintained as per workplace procedures 1.6 Goat structures construction and maintenance records are kept as per workplace requirements 1.7 Waste is managed according to environmental protection regulations
2. Carry out goat feeding	2.1 Tools, equipment and materials are assembled as per work requirements 2.2 <b><i>Goat feeds</i></b> are identified as per the nutritional requirements 2.3 Basal rations at various physiological stage are provided based on feeding plan. 2.4 <b><i>Feed supplements</i></b> are offered according to animal dietary

<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. <i><b>Bold and italicized terms are elaborated in the Range.</b></i>
	requirements 2.5 <i><b>Grazing management</b></i> is identified and practiced 2.6 Grazing capacity of the pasture is determined based on pasture land condition 2.7 Feed intake is evaluated as per the LPM 2.8 Feed conversion efficiency is evaluated based on productivity 2.9 Goat feeding record is generated as per the workplace procedures 2.10 Waste is managed according to environmental protection regulations
3. Carry out goat breeding	3.1 Breeding management tools, equipment and materials are assembled in accordance with LPM 3.2 <i><b>Goat breeds</b></i> are identified based on LPM 3.3 Goat breeds are selected based on traits of economic importance and farmer requirements 3.4 Does on heat are detected based on LPM 3.5 Flushing is carried out as per LPM 3.6 Service is performed based on the <i><b>breeding method and technologies</b></i> as per the LPM 3.7 Pregnant does are provided care based on the LPM 3.8 Steaming-up is carried out based on LPM 3.9 Kidding is managed as per the LPM 3.10 Breeding records are prepared as per work procedures
4. Perform goat routine management practices	4.1 <i><b>Goat identification method</b></i> is selected based on GAPs 4.2 <i><b>Goat castration</b></i> is performed based on GAPs 4.3 Goat overgrown hooves are trimmed based on GAPs 4.4 Shearing is performed based on GAPs 4.5 Culling is performed based on workplace policy

<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. <i><b>Bold and italicized terms are elaborated in the Range.</b></i>
	<p>4.6 Internal and external parasites are controlled based on LPM and GAPS</p> <p>4.7 Vaccination is performed as per workplace policy, manufacturer's instructions and LPM</p> <p>4.8 Isolation and quarantine is carried out to control notifiable diseases based on GAPS</p> <p>4.9 Goats are provided with clean water ad-libitum as per LPM</p> <p>4.10 Records are prepared as per work procedures</p>
5. Carry out kid management	<p>5.1 Kid is handled at birth according to instructions in the LPM</p> <p>5.2 Kid is fed colostrum according to the LPM</p> <p>5.3 Orphaned kids are fostered according to LPM</p> <p>5.4 Kid is identified using suitable method in accordance with LPM, animal welfare regulations and work place policy</p> <p>5.5 Kid is weighed in accordance with LPM instructions and work place policy</p> <p>5.6 Kid growth rate is monitored as per LPM</p> <p>5.7 Waste is managed and disposed based on environmental protection regulations</p>
6. Market goat products	<p>6.1 Market survey is conducted based on Standard Survey guidelines</p> <p>6.2 Goats are classified as per products</p> <p>6.3 Goats are transported to the market based on Animal Welfare Act</p> <p>6.4 Goat products are sold based on market requirements</p> <p>6.5 Marketing records are maintained based on workplace guidelines</p>

## 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.

RANGE	VARIABLE
1. Construction tools and equipment may include but are not limited to:	<ul style="list-style-type: none"><li>• Hammer</li><li>• Hand drill</li><li>• Nails</li><li>• Wheelbarrow</li><li>• Crowbar</li><li>• Saw</li><li>• Scissors</li><li>• Spade</li><li>• Measuring tape</li><li>• Panga</li><li>• String/line</li></ul>
2. Goat feeds may include but are not limited to:	<ul style="list-style-type: none"><li>• Grass</li><li>• Shrubs</li><li>• Commercially formulated feeds</li></ul>
3. Feed supplements may include but are not limited to:	<ul style="list-style-type: none"><li>• Vitamins</li><li>• Minerals</li><li>• Hormones</li><li>• Medicants</li></ul>
4. Goat breed may include but are not limited to:	<ul style="list-style-type: none"><li>• Angora, Alpine</li><li>• Toggenburg</li><li>• Saanen, Jamnapuri</li><li>• Boar, Anglo-Nubian</li><li>• Somali/ Galla</li></ul>
5. Breeding methods may include but are not limited to:	<ul style="list-style-type: none"><li>• Natural mating</li><li>• Artificial insemination</li></ul>
6. Identification methods may	<ul style="list-style-type: none"><li>• Tattooing, Ear-tagging</li></ul>

<b>RANGE</b>	<b>VARIABLE</b>
include but are not limited to:	<ul style="list-style-type: none"> <li>• Ear notching, Microchips</li> <li>• Naming</li> </ul>
7. Castration methods may include but are not limited to:	<ul style="list-style-type: none"> <li>• Rubber ringing</li> <li>• Open castration</li> </ul>
8. Classification of goats may include but are not limited to:	<ul style="list-style-type: none"> <li>• Hair goats</li> <li>• Meat goats</li> <li>• Dairy goats</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 skills
- Problem solving
- Organizational skills
- Time management
- Critical thinking
- Record keeping
- Routine management

### **Required knowledge**

The individual needs to demonstrate knowledge of:

- Goat handling
- Procurement procedures
- Reporting
- Rearing goats
- Feed handling
- Proper disposal of waste
- Types of inputs
- Types of wastes
- Sources of farm wastes

- Biosecurity measures
- Marketing goat products

### 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>Assessment requires evidence that the candidate:</p> <ul style="list-style-type: none"> <li>1.1 Constructed goat structures as per the LPM</li> <li>1.2 Handled the goats as per the LPM</li> <li>1.3 Fed the goats as per the LPM</li> <li>1.4 Bred the goats and reared the kids as per the LPM</li> <li>1.5 Managed waste based on the environmental protection regulations</li> <li>1.6 Kept records according to the work place policy</li> </ul>
2. Resource implication	<p>The following resources should be provided:</p> <ul style="list-style-type: none"> <li>2.1 Tools, equipment and machineries</li> <li>2.2 Materials and supplies</li> </ul>
3. Method of assessment	<p>Competency in this unit may be assessed through:</p> <ul style="list-style-type: none"> <li>3.1 Projects</li> <li>3.2 Observation</li> <li>3.3 Written tests</li> <li>3.4 Questionnaires</li> <li>3.5 Oral questioning</li> </ul>
4. Context of assessment	<ul style="list-style-type: none"> <li>4.1 Competency elements must be assessed in a safe working environment</li> <li>4.2 Assessment may be conducted in a workplace or simulated environment</li> </ul>
5. Guidance information for assessment	<p>Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended.</p>