

## APPLY KNOWLEDGE OF PASTURE AND FODDER PRODUCTION AND CONSERVATION

**UNIT CODE:** 0811 541 31A

**TVET CDACC UNIT CODE:** HE/OS/AHP/CC/13/6/MA

### UNIT DESCRIPTION:

This unit specifies the competencies required by a animal health technologist in order to apply knowledge of pasture and fodder production. It involves classification, establishment and conservation of pasture and fodder.

### 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.  <i><b>Bold and italicized terms are elaborated in the range.</b></i>
1. Classify pasture and fodder	1.1. <i><b>Pastures</b></i> are identified according to <i><b>agro ecological zones</b></i> 1.2. Classes of forage plants are identified and applied as per job requirement 1.3. Factors for selecting forage species are applied as per work requirement
2. Establish pasture and fodder	2.1. Method of pasture establishment is applied as per work requirement 2.2. Seeding methods and rates are applied as per work requirement 2.3. Methods of weed control and management are applied as per work requirement 2.4. Methods of natural pasture management are applied as per work requirement 2.5. <i><b>Grazing systems</b></i> are applied as per work requirement
3. Conserve pasture and fodder	3.1. Methods of forage conservation are applied as per work requirement 3.2. Silage and hay making is performed as per work procedure 3.3. Emerging trends in pasture establishment and conservation are identified as per work procedure

## **RANGE**

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

<b>Variable</b>	<b>Range</b>
1. Pastures include but not limited to	<ul style="list-style-type: none"><li>● Rhodes grass</li><li>● Brachiaria</li><li>● Napier grass</li><li>● Guatemala grass</li><li>● Kikuyu grass</li><li>● Sudan grass</li><li>● Lucerne</li><li>● Desmodium</li><li>● Calliandra</li><li>● White clover</li></ul>
2. Agro ecological zones include but not limited to	<ul style="list-style-type: none"><li>● Upper Highland</li><li>● Upper Midland</li><li>● Lower highland</li><li>● Lower midland</li></ul>
3. Grazing systems include but not limited to	<ul style="list-style-type: none"><li>● Zero grazing</li><li>● Herding</li><li>● Rotational grazing</li><li>● Paddocking</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
- Seedbed preparation

### **Required knowledge**

The individual needs to demonstrate knowledge of:

- Ecology and environmental sciences
- Farm structure

- Botany and zoology
- Soil science

## EVIDENCE GUIDE

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

<p>1. Critical Aspects of Competency</p>	<p>Assessment requires evidence that the candidate:</p> <p>1.1 Identified pastures are identified according to agro ecological zones</p> <p>1.2 Identified and applied classes of forage plants as per job requirement</p> <p>1.3 Applied factors for selecting forage species as per work requirement</p> <p>1.4 Applied method of pasture establishment as per work requirement</p> <p>1.5 Applied seeding methods and rates are applied as per work requirement</p> <p>1.6 Applied methods of weed control and management are applied as per work requirement</p> <p>1.7 Methods of natural pasture management as per work requirement</p> <p>1.8 Applied grazing systems as per work requirement</p> <p>1.9 Applied methods of forage conservation as per work requirement</p> <p>1.10 Performed silage and hay making as per work procedure</p> <p>1.11 Identified emerging trends in pasture establishment and conservation as per work procedure</p>
<p>2. Resource Implications</p>	<p>The following resources must be provided:</p> <p>2.1 Appropriately simulated environment where assessment can take place</p> <p>2.2 Access to relevant work environment</p> <p>2.3 Resources relevant to the proposed activities or tasks</p>
<p>3. Methods of</p>	<p>Competency may be assessed through:</p>

Assessment	3.1. Observation 3.2. Oral questioning 3.3. Written test 3.4. Portfolio of Evidence 3.5. Interview 3.6. Third party report
4. Context of Assessment	Competency may be assessed in a:  Workplace or simulated workplace.
5. Guidance information for assessment	Holistic assessment with other units relevant to the industry sector, workplace and job roles is recommended.