

## PASTURE AND FODDER PRODUCTION

**UNIT CODE: 0811 441 25A**

**TVET CDACC UNIT CODE: HE/CU/AHP/CC/18/5/MA**

### **Relationship to Occupational Standards**

This unit addresses the Unit of Competency: Apply knowledge of pasture and fodder production.

**UNIT DURATION: 60 Hours**

### **Unit Description**

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

### **Summary of Learning Outcomes**

By the end of this unit, the learner should be able to:

<b>S/No</b>	<b>Learning Outcomes</b>	<b>Duration (Hours)</b>
1.	Classify pasture and fodder	15
2.	Establish pasture and fodder	25
3.	Conserve pasture and fodder	20
<b>Total</b>		<b>60</b>

### **Learning Outcomes, Content and Suggested Assessment Methods**

<b>Learning Outcomes</b>	<b>Content</b>	<b>Suggested Assessment Methods</b>
1. Classify pasture and fodder	1.1 Agro-ecological zones 1.1.1 Upper Highland 1.1.2 Upper Midland 1.1.3 Lower highland 1.1.4 Lower midland 1.2 Pasture classification	● Practical ● Project ● Written tests ● Third party report ● Portfolio of evidence

	<p>1.2.1 Annual</p> <p>1.2.2 Perennial.</p> <p>1.3 Classes of forage plants</p> <p>1.3.1 Legumes</p> <p>1.3.2 Grasses</p> <p>1.3.3 Cereals</p> <p>1.4 Pastures</p> <p>1.4.1 Rhodes grass</p> <p>1.4.2 Brachiaria</p> <p>1.4.3 Napier grass</p> <p>1.4.4 Guatemala grass</p> <p>1.4.5 Kikuyu grass</p> <p>1.4.6 Sudan grass</p> <p>1.4.7 Lucerne</p> <p>1.4.8 Desmodium</p> <p>1.4.9 Calliandra</p> <p>1.4.10 White clover</p> <p>1.5 Factors for selecting forage species</p>	<ul style="list-style-type: none"> <li>● Oral questions</li> </ul>
<p>2. Establish pasture and fodder</p>	<p>2.1 Method of pasture establishment</p> <p>2.2 Seeding methods and rates</p> <p>2.3 Methods of weed control and management</p> <p>2.4 Methods of natural pasture management</p> <p>2.5 Grazing systems</p> <p>2.5.1 Zero grazing</p> <p>2.5.2 Herding</p> <p>2.5.3 Rotational grazing</p> <p>2.5.4 Paddocking</p>	<ul style="list-style-type: none"> <li>● Practical</li> <li>● Project</li> <li>● Written tests</li> <li>● Third party report</li> <li>● Portfolio of evidence</li> <li>● Oral questions</li> </ul>

3. Conserve pasture and fodder	3.1 Methods of forage conservation	<ul style="list-style-type: none"> <li>● Practical</li> <li>● Project</li> <li>● Written tests</li> <li>● Third party report</li> <li>● Portfolio of evidence</li> <li>● Oral questions</li> </ul>
	3.1.1 Silage 3.1.2 Hay making 3.2 Emerging trends in pasture establishment and conservation	

### Suggested Methods of Instruction

- Practical
- Projects
- Demonstrations
- Group discussion
- Direct instructions

### Recommended Resources for 25 Trainees

S/No.	Category/Item	Description/S pecification	Quantit y	Recommended Ratio (Item: Trainee)
<b>A</b>	<b>Learning materials</b>			
1.	Projector	EPSOM	1	1:25
2.	Whiteboard/Smartboard	2.5 By 1.5.M	1	1:25
3.	Desktop/computer		1	1:25
<b>B</b>	<b>Learning Facilities &amp; Infrastructure</b>			
4.	Lecture/Theory room	With at least 25 seats	1	1:25
5.	Library	Equipped with pasture and fodder production books and E-section	1	1:25
6.	Silos		1	1:25
<b>C</b>	<b>Consumable Materials</b>			
1.	Legumes	Enough	-	-
2.	Grasses	Enough	-	-
3.	Cereals	Enough	-	-
4.	Silage ensiling bags		5	1:5
5.	Feed packing wooven bag		100	4:1
6.	Mollasses	20 Litres	-	-

<b>D</b>	<b>Tools and Equipment</b>			
7.	Chaff cutter			
8.	Manual operated hay baler		5	1:5
9.	Shovel		25	1:1
10.	Watering gun		5	1:5