



**REPUBLIC OF KENYA**

**COMPETENCY-BASED MODULAR CURRICULUM**

**FOR**

**AGRICULTURE AND EXTENSION LEVEL 6  
(CYCLE 3)**

**ISCED PROGRAMME CODE: 0811 554 A**



**TVET CDACC  
P.O. BOX 15745-00100 NAIROBI**

## FORAGE CROPS PRODUCTION

**UNIT CODE:** 0811 551 16A

**TVET CDACC UNIT CODE:** AGR/CU/EXT/CR/04/5/MA

**UNIT DURATION:** 120 HOURS

### Relationship to Occupational Standards

This unit specifies competencies required to produce and conserve forage. It entails; preparation of land for forage growing, establishment and management of forage crops, utilization of forage.

### Unit Description

This unit specifies competencies required to produce forage crops

### Summary of Learning Outcomes

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

S/No	Learning Outcomes	Duration (Hours)
1.	Prepare planting materials	20
2.	Prepare crops seedbed	20
3.	Plant forage crops	20
4.	Manage forage crops	30
5.	Harvest forage crops	10
6.	Utilise forage crops	20
Total		120

### Learning Outcomes, Content and Suggested Assessment Methods

Learning outcomes	Content	Suggested assessment methods
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1. Prepare planting materials	<b>Theory</b> 1.1 Planting materials preparation 1.1.1 Definition of terms 1.1.2 Types of planting materials 1.2 Planting materials preparations tools and equipments 1.2.1 Uses 1.2.2 Maintenance 1.3 Planting materials 1.4 Treatment of planting materials 1.5 Planting materials preparation records <b>Practice</b> 1.6 Prepare planting materials	<ul style="list-style-type: none"> <li>• Written tests</li> <li>• Reflection papers</li> <li>• Projects</li> <li>• Interviews/ oral questions</li> <li>• Workshop reports</li> <li>• Individual/group assignments</li> <li>• Practicals</li> </ul>
2 Prepare crop seedbed	<b>Theory</b> 2.1 Crop seedbed preparation 2.1.1 Definition of terms 2.1.2 Importance of crop seedbed preparation 2.2 Crop seedbed preparation tools and equipment's 2.2.1 Uses 2.2.2 Maintenance 2.3 Land clearing 2.4 Tillage operations 2.5 Crop seedbed preparation soil conservation measures 2.6 Crop seedbed preparation records <b>Practice</b> 2.7 Prepare crop seedbed	<ul style="list-style-type: none"> <li>• Written tests</li> <li>• Reflection papers</li> <li>• Projects</li> <li>• Interviews/ oral questions</li> <li>• Workshop reports</li> <li>• Individual/group assignments</li> <li>• Practical</li> </ul>
3 Plant forage	<b>Theory</b>	<ul style="list-style-type: none"> <li>• Written tests</li> </ul>

crops	3.1 forage crops establishment 3.1.1 definition of terms 3.1.2 methods of establishment 3.2 forage crops establishment inputs 3.3 forage crops establishment. 3.4 forage crops establishment records <b>Practice</b> 3.5 establish forage crops	<ul style="list-style-type: none"> <li>• Reflection papers</li> <li>• Projects</li> <li>• Interviews/ oral questions</li> <li>• Workshop reports</li> <li>• Individual/group assignments</li> <li>• Practical</li> </ul>
4 Manage forage crops	<b>Theory</b> 4.1 Forage management 4.1.1 Definition of terms 4.1.2 Importance of forage management 4.2 Forage crops management farm inputs 4.3 Forage crops management practices 4.4 Forage crops management records <b>Practice</b> 4.5 manage forage crops	<ul style="list-style-type: none"> <li>• Written tests</li> <li>• Reflection papers</li> <li>• Projects</li> <li>• Interviews/ oral questions</li> <li>• Workshop reports</li> <li>• Individual/group assignments</li> <li>• Practicals</li> </ul>
5 Harvest forage crops	<b>Theory</b> 5.1 Forage crops harvesting 5.1.1 Definition of terms 5.1.2 Methods of harvesting forage crops 5.2 Forage crops harvesting tools and equipment's 5.2.1 Uses 5.2.2 Maintenance	<ul style="list-style-type: none"> <li>• Written tests</li> <li>• Reflection papers</li> <li>• Projects</li> <li>• Interviews/ oral questions</li> <li>• Workshop reports</li> <li>• Individual/group assignments</li> <li>• Practicals</li> </ul>

	5.3 Forage crops maturity indices 5.4 Forage crop harvesting 5.5 Forage crops harvesting records <b>Practice</b> 5.6 Harvest forage crops	
6 Utilize forage crops	<b>Theory</b> 6.1 Forage crops utilization 6.1.1 Definition of terms <b>6.1.2</b> Importance of forage utilization 6.2 Forage crops utilization tools, equipment and machinery <b>6.3</b> Forage crops conservation <b>6.4</b> Forage crops utilization records <b>Practice</b> 6.5 utilize forage crops	•

### Suggested Methods of Instruction

- Role playing
- Group discussion
- Direct instruction

### Recommended Resources for 25 Trainees

S/No.	Category/Item	Description/Specifications	Quantity	Recommended Ratio (Item: Trainee)
<b>A</b>	<b>Learning Materials</b>			
1.	Business Journals		5 pcs	1:5
2.	writing materials		50	2:1
3.	Charts		1	1:25

4.	PowerPoint presentations	For trainer's use		
5.	Whiteboard		1	1:25
6.	Assorted color of whiteboard markers	For trainer's use		
7.	Printers		1	1:25
8.	Projector		1	1:25
<b>B</b>	<b>Learning Facilities &amp; infrastructure</b>			
1.	Lecture/theory room		1	1:25
2.	Agriculture lab		1	1:25
	<b>Consumable materials</b>			
	Fertilizers	DAP, CAN, SSP, UREA	1-50kg bag	1:25
	Seeds	25kg/ha	1	1: 25
	Stem cuttings	1 tonne/ha	0.25	1:25
	Herbicides		1	1:25
	Pesticides		1	1:25
<b>C</b>	<b>Tools and Equipment</b>			
1.	Hoe		25	1:1
2.	Rake		25	1:1
3.	Machete		25	1:1
4.	Planters		1	1:25
5.	Harrows		1	1:25
6.	Dusters		1	1:25
7.	Chuff cutter		1	1:25