



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

FARM STRUCTURES

UNIT CODE: 0811 551 19 A

TVET CDACC UNIT CODE: AGR/CU/EXT/CR/01/6/MA

UNIT DURATION: 120 HOURS

Relationship to Occupational Standards

This unit specifies competencies required to set up farm structures. It involves developing of farm plan, designing farm structures and constructing farm structures. It also involves maintenance of used farm structures.

Unit Description

This unit specifies competencies required to establish farm structures.

Summary of Learning Outcomes

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

S/No	Learning Outcomes	Duration (Hours)
1.	Develop a farm plan	20
2.	Design farm structures	20
3.	Construct farm structures	40
4.	Maintain farm structures	10
5.	Use farm structures	10
Total		120

Learning Outcomes, Content and Suggested Assessment Methods

Learning outcomes	Content	Suggested assessment methods
1. Develop a farm plan	Theory 1.2 Farm plan development 1.2.1 Definition of terms	<ul style="list-style-type: none">• Written tests• Reflection papers

	<p>1.2.2 Types of farm plans</p> <p>1.2.3 Analysis of farm conditions</p> <p> 1.2.3.1 topography</p> <p> 1.2.3.2 Wind direction</p> <p> 1.2.3.3 Soil type</p> <p> 1.2.3.4 Accessibility</p> <p> 1.2.3.5 Location of related structures</p> <p> 1.2.3.6 Security</p> <p>1.3 Determination of space requirements of farm components</p> <p>1.4 Farm plan layout</p>	<ul style="list-style-type: none"> • Projects • Interviews/ oral questions • Workshop reports • Individual/group assignments • Practicals
2. Design farm structure	<p>Theory</p> <p>2.1 Farm structures design.</p> <p> 2.1.1 Definition of terms</p> <p> 2.1.2 Types of designs in farm structures</p> <p> 2.1.3 Factors determining farm structures design</p> <p> 2.1.4 Importance of designs in farm structures.</p> <p> 2.1.5 Determination of areas, volumes and scales in farm structures design.</p> <p> 2.1.6 Farm structures plans</p>	<ul style="list-style-type: none"> • Written tests • Reflection papers • Projects • Interviews/ oral questions • Workshop reports • Individual/group assignments • Practical

3. Construct farm structure	theory 3.1 farm structure construction 3.1.1 definition of terms 3.1.2 site selection 3.1.3 farm structure tools and equipment 3.1.3.1 uses of farm structures tools and equipment 3.1.3.2 maintenance of farm structures tool and equipment. 3.2 design farm structures	<ul style="list-style-type: none"> • Written tests • Reflection papers • Projects • Interviews/ oral questions • Workshop reports • Individual/group assignments • Practical
4. Maintain farm structures	theory 4.1 farm structure maintenance 4.1.1 definition of terms 4.2 inspection of performance of constructed structures 4.3 farm structure quality checked 4.4 farm structure design repaired	<ul style="list-style-type: none"> • Written tests • Reflection papers • Projects • Interviews/ oral questions • Workshop reports • Individual/group assignments • Practicals

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)
A	Learning Materials			
1.	Reference books	Farm structures	5 pcs	1:5
2.	writing materials		50	2:1

3.	Charts	On farm structures	5	1:5
4.	PowerPoint presentations	For trainer's use	1	1:25
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	Learning Facilities & infrastructure			
1.	Lecture/theory room		1	1:25
2.	Agriculture workshop	Well equipped	1	1:25
C	Tools and Equipment			
1.	Claw hummer		5	1:5
2.	Saw		5	1:5
3.	Nails	Assorted	1	1:25
4.	Timber	Assorted	1	1:25