

FARM STRUCTURES AND MECHANIZATION

UNIT CODE: 0811 441 09A

TVET CDACC UNIT CODE: HE/CU/AHP/CC/08/5/MA

Relationship to Occupational Standards

This unit addresses the Unit of Competency: Apply knowledge of farm structures and mechanization.

UNIT DURATION: 50 Hours

Unit Description

This unit specifies the competencies required by an animal health and production technician in order to apply knowledge of farm structures and mechanization in animal farms. It involves applying knowledge of farm structures, farm power, and knowledge of farm mechanization.

Summary of Learning Outcomes

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

S/No	Learning Outcomes	Duration (Hours)
1.	Apply knowledge of farm structures	20
2.	Apply knowledge on farm power	15
3.	Apply knowledge of farm mechanization	15
Total		50

Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcomes	Content	Suggested Assessment Methods
1. Apply knowledge of farm structures	1.1 Farm planning 1.2 Construction materials ● Timber ● Stone ● Metal	● Practical ● Project ● Written tests ● Third party report ● Portfolio of evidence

	● Iron sheets ● Sand ● Ballast ● Cement ● Nails 1.3 Livestock Housing structures 1.3.1 Zero grazing unit 1.3.2 Piggery 1.3.3 Rabbitry 1.3.4 Poultry unit 1.3.5 Sheep and goats pen 1.4 Livestock restraining structures 1.5 Dips and spray races	● Oral questions
2. Apply knowledge on farm power	2.1 Farm power 2.1.1 Animal power 2.1.2 Solar power 2.1.3 Tractor power 2.1.4 Human power 2.2 Farm power selection 2.3 Tractor/animal power operations	● Practical ● Project ● Written tests ● Third party report ● Portfolio of evidence ● Oral questions
3. Apply knowledge of farm mechanization	3.1 Farm mechanization 3.2 Challenges of farm mechanization 3.3 Farm machinery and equipment 3.3.1 Silage chopper 3.3.2 Chaff cutter 3.3.3 Hay Bailing machine 3.3.4 Knapsack sprayer	● Practical ● Project ● Written tests ● Third party report ● Portfolio of evidence ● Oral questions

Suggested Methods of Instruction

- Practical
- Projects
- Demonstrations

- Group discussion
- Direct instructions

Recommended Resources for 25 Trainees

S/NO	Category/Item	Description/specification	Qty	Recommended ratio (item: trainee)
	Projector	EPSOM	1	1:25
	Whiteboard/smartboard	2.5 By 1.5.M	1	1:25
	Desktop/computer		1	1:25
	Classroom	Well-lit with 25 seats	1	1:25
	Library	Equipped with farm structures books and E-section	1	1:25
	Silage chopper		5	1:5
	Chaff cutter		5	1:5
	Hay Baling machine		1	1:25
	Knapsack sprayer		5	1:5
	Tractor		1	1:5
	Solar power		-	-
	Zero grazing unit	As guided by KVB	1	1:25
	Piggery	As guided by KVB	1	1:25
	Rabbitry	As guided by KVB	1	1:25
	Poultry unit	As guided by KVB	1	1:25
	Timber	As by the structure requirement	-	-
	Stone	As by the structure requirement	-	-
	Metal	As by the structure requirement	-	-
	Iron sheets	As by the structure requirement	-	-
	Sand	As by the structure requirement	--	-
	Ballast	As by the structure requirement	-	-
	Cement	As by the structure requirement	-	-
	Nails	As by the structure requirement	-	-