

## FARM STRUCTURES

**UNIT CODE:** 0716 351 04 A

**TVET CDACC UNIT CODE:** AGR/CU/AP/CR/04/4/MA

**UNIT DURATION:** 100HOURS

### 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.	To develop a farm plan	15
2.	To design farm structures	15
3.	To construct farm structures	30
4.	To maintain farm structures	20
5.	To use farm structures	20
<b>Total</b>		<b>100</b>

### Learning Outcomes, Content and Suggested Assessment Methods

Learning outcomes	Content	Suggested assessment methods
1. Develop a farm plan	1.1 Farm plan development 1.1.1 Definition of terms 1.1.2 Types of farm plans 1.1.3 Analysis of farm conditions 1.1.3.1 Topography 1.1.3.2 Wind direction	<ul style="list-style-type: none"><li>• Written assessment</li><li>• Practical</li><li>• Projects</li><li>• Third party report</li><li>• Portfolio of evidence</li></ul>

		<p>1.1.3.3 Soil type</p> <p>1.1.3.4 Accessibility</p> <p>1.1.3.5 Location of related structures</p> <p>1.1.3.6 Security</p> <p>1.2 Determination of space requirements of farm components</p> <p>1.3 Farm plan layout</p>	<ul style="list-style-type: none"> <li>• Oral questions</li> </ul>
2. Design structure	farm	<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"> <li>• Written assessment</li> <li>• Practical</li> <li>• Projects</li> <li>• Third party report</li> <li>• Portfolio of evidence</li> <li>• Oral questions</li> </ul>
3. Construct structure	farm	<p>3.1 farm structure construction</p> <p>3.1.1 definition of terms</p> <p>3.1.2 site selection</p> <p>3.1.3 farm structure tools and equipment</p> <p>3.1.3.1 uses of farm structures tools and equipment</p> <p>3.1.3.2 maintenance of farm structures tool and equipment.</p> <p>3.2 design farm structures</p>	<ul style="list-style-type: none"> <li>• Written assessment</li> <li>• Practical</li> <li>• Projects</li> <li>• Third party report</li> <li>• Portfolio of evidence</li> <li>• Oral questions</li> </ul>
4. Maintain structures	farm	<p>4.1 farm structure maintenance</p> <p>4.1.1 definition of terms</p> <p>4.2 inspection of performance of constructed structures</p> <p>4.3 farm structure quality checked</p> <p>4.4 farm structure design repaired</p>	<ul style="list-style-type: none"> <li>➤ Written assessment</li> <li>➤ Practical</li> <li>➤ Projects</li> <li>➤ Third party report</li> <li>➤ Portfolio of evidence</li> <li>➤ Oral questions</li> </ul>

### 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.	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>B</b>	<b>Learning Facilities &amp; infrastructure</b>			
1.	Lecture/theory room		1	1:25
2.	Agriculture workshop	Well equipped	1	1:25
<b>C</b>	<b>Tools and Equipment</b>			
1.	Claw hummer		5	1:5
2.	Saw		5	1:5
3.	Nails	Assorted	1	1:25
4.	Timber	Assorted	1	1:25