

## 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 addresses the Unit of Competency: Establish farm structures

### Unit Description

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.

### 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       | 20               |
| 2.           | To design farm structures    | 20               |
| 3.           | To construct farm structures | 40               |
| 4.           | To maintain farm structures  | 10               |
| 5.           | To use farm structures       | 10               |
| <b>Total</b> |                              | <b>120</b>       |

### Learning Outcomes, Content and Suggested Assessment Methods

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

|                          |  |   |
|--------------------------|--|---|
|                          | <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"> <li>• Projects</li> <li>• Interviews/ oral questions</li> <li>• Workshop reports</li> <li>• Individual/group assignments</li> <li>• Practicals</li> </ul>  |
| 2. Design farm structure | <p><b>Theory</b></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"> <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. Construct farm structure | <b>theory</b><br>3.1 farm structure construction<br>3.1.1 definition of terms<br>3.1.2 site selection<br>3.1.3 farm structure tools and equipment<br>3.1.3.1 uses of farm structures tools and equipment<br>3.1.3.2 maintenance of farm structures tool and equipment.<br>3.2 design farm structures | <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>  |
| 4. Maintain farm structures | <b>theory</b><br>4.1 farm structure maintenance<br>4.1.1 definition of terms<br>4.2 inspection of performance of constructed structures<br>4.3 farm structure quality checked<br>4.4 farm structure design repaired  | <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> |

### Suggested Methods of Instruction

- Role playing
- Group discussion
- Direct instruction

### Recommended Resources for 25 Trainees

| S/No. | Category/Item             | Description/Specifications | Quantity | Recommended Ratio<br>(Item: Trainee) |
|-------|---------------------------|----------------------------|----------|--------------------------------------|
| A     | <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   | Assorted           | 5 | 1:5  |
| 3.       | Nails   | Assorted           | 1 | 1:25 |
| 4.       | Timber  | Assorted           | 1 | 1:25 |