

CONSTRUCTION OF POULTRY STRUCTURES

UNIT CODE: 0811 251 01A

TVET CDACC UNIT CODE: POL/CU/BR/CR/01/3/MA

Relationship to Occupational Standards

This unit addresses the Unit of Competency: Construct Poultry Structures

Duration of Unit: 180 hours

Unit Description

This unit specifies the competencies required to construct poultry structures. It involves preparing to construct poultry structures, constructing poultry house structure, installing poultry house structures and equipping poultry house.

Summary of Learning Outcomes

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

S/No	Learning Outcomes	Duration (Hours)
1.	Prepare to construct poultry structures	40
2.	Construct poultry structures	50
3.	Install poultry house structures	50
4.	Equip poultry house	40
Total		180

Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcome	Content	Suggested Assessment Methods
1. Prepare to construct poultry structures	1.1. Types of poultry structures 1.1.1. Brooder	<ul style="list-style-type: none">• Written tests• Observation

	<p>1.1.2. Rearing house</p> <p>1.1.3. Store</p> <p>1.2. Factors determining type of poultry house</p> <p>1.2.1. Type of birds</p> <p>1.2.2. Production system</p> <p>1.2.3. Cost</p> <p>1.3. Construction materials</p> <p>1.4. Poultry structures site preparation</p> <p>1.5. Personal Protection Equipment and Apparel (PPEs) required in poultry house construction</p> <p>1.5.1. Overalls</p> <p>1.5.2. Gumboots</p> <p>1.5.3. Nose and mouth mask</p>	<ul style="list-style-type: none"> • Oral questions • Third party report
2. Construct poultry structures	<p>2.1. Accessory structures required in a poultry house</p> <p>2.1.1. Perches</p> <p>2.1.2. Foot bath</p> <p>2.1.3. Cages</p> <p>2.2. Various designs of poultry structures.</p> <p>2.3. Occupational safety and health procedures in poultry house construction.</p> <p>2.4. Environmental protection measures observed during poultry house construction.</p> <p>2.4.1. NEMA certification</p>	<ul style="list-style-type: none"> • Written tests • Observation • Oral questions • Third party report

	2.5. Construction materials 2.5.1. Types 2.5.2. Quality 2.5.3. Storage	
3. Construct and install poultry house structures	3.1. Poultry house layout 3.1.1. Area measurement 3.1.2. Pegging 3.2. Poultry house foundation 3.2.1. Excavation 3.2.2. Mixing ratios of mortar 3.2.3. Stone laying 3.3. Construction of poultry house parts 3.3.1. Floor 3.3.2. Wall 3.3.3. Roof 3.4. Construction of security and bio-security measures 3.4.1. Predators barriers 3.4.2. Vehicle and human traffic controls 3.5. Construction of accessory structures 3.5.1. Perches 3.5.2. Cages 3.5.3. Poultry pallets 3.5.4. Foot bath 3.6. Site clearing 3.6.1. Debris disposal 3.7. Work inspection	<ul style="list-style-type: none"> • Written tests • Observation • Oral questions • Third party report • Project

	3.8. Critical house requirements	
4. Equip poultry house	<p>4.1. Equipment and material necessary in a poultry house</p> <p>4.1.1. Types and use (Waterers, feeders and thermometer)</p> <p>4.1.2. Specifications and quantity</p> <p>4.2. Factors considered in installation of equipment and materials in poultry house</p> <p>4.2.1. Time</p> <p>4.2.2. Pattern</p> <p>4.2.3. Safety precautions</p> <p>4.2.4. Number of birds</p> <p>4.3. Testing-running of the equipment</p> <p>4.3.1. Heat source</p> <p>4.3.2. Waterers</p> <p>4.3.3. Feeders</p> <p>4.3.4. Ventilation</p> <p>4.3.5. Lighting</p>	<ul style="list-style-type: none"> • Written tests • Observation • Oral questions • Third party report • Interviewing • Project and report writing

Suggested Methods of Delivery

- Demonstration
- Practice by the trainee
- Field trips
- Discussions
- Direct instruction
- Case studies
- Simulation

- Audio-visual aids
- Modelling

Recommended Resources

Functional poultry farm with the following:		
<ul style="list-style-type: none"> • Poultry house • Equipments <ul style="list-style-type: none"> • Brooder • Brooder thermometer • Hygrometer • Waterers • Feeders • Complete Battery cage system • Bedding materials • Buckets • Grit / shell container • Sand bath 	<ul style="list-style-type: none"> • Brooder • Store • Accessory structures • Saw • Stones • Sand • Cement • Ballast • Timber • Slashers • Crowbar 	<ul style="list-style-type: none"> • Hammer • Nails • String • Wooden pegs • Tape measures • Barbed/chain link • Hoe • Shovels • Wheel burrow