

POULTRY STRUCTURES CONSTRUCTION

ISCED UNIT CODE: 0732 251 01A

TVETCDACC UNIT CODE: POL/CU/LY/CR/01/3/MA

Relationship to Occupational Standards

This unit addresses the Unit of Competency: Construct Poultry Structures

Duration of Unit: 100 hours

Unit Description

This unit covers the competencies required to construct poultry structures. It involves designing of poultry structures, acquiring construction materials, and managing house construction.

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	20
2.	Construct poultry structures	30
3.	Install poultry house structures	30
4.	Equip poultry house	20
Total		100

Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcome	Content	Methods of Assessment
1. Prepare and plan to construct poultry structures	1.1. Types of poultry structures 1.1.1. Brooder 1.1.2. Rearing house 1.1.3. Store 1.2. Factors determining type of poultry house	<ul style="list-style-type: none">• Written tests• Observation• Oral questions• Third party report

	<p>1.2.1. Type of birds</p> <p>1.2.2. Production system</p> <p>1.3. Site preparations</p> <p>1.4. Construction materials</p> <p> 1.4.1. Types</p> <p> 1.4.2. Quality</p> <p> 1.4.3. Storage</p> <p>1.5. Personal Protection Equipment and Apparel (PPEs) required in poultry house construction</p>	
2. Construct and install poultry house structures	<p>2.1. Poultry house layout</p> <p> 2.1.1. Area measurement</p> <p> 2.1.2. Pegging</p> <p>2.2. Poultry house foundation</p> <p> 2.2.1. Excavation</p> <p> 2.2.2. Mixing ratios of mortar</p> <p> 2.2.3. Stone laying</p> <p>2.3. Construction of poultry house parts</p> <p> 2.3.1. Floor</p> <p> 2.3.2. Wall</p> <p> 2.3.3. Roof</p> <p>2.4. Construction of Security and Biosecurity measures</p> <p> 2.4.1. Predators barriers</p> <p> 2.4.2. Vehicle and human traffic controls</p> <p>2.5. Construction of accessory structures</p> <p> 2.5.1. Perches</p> <p> 2.5.2. Laying boxes</p> <p> 2.5.3. Foot bath</p> <p> 2.5.4. Cages</p>	<ul style="list-style-type: none"> • Written tests • Observation • Oral questions • Third party report

	<p>2.6. Installation of movable poultry house structures</p> <p>2.7. Environmental protection measures observed during poultry house construction</p> <p>2.7.1. NEMA certification</p>	
3. Equip poultry house	<p>3.1. Equipment and material necessary in a poultry house</p> <p>3.1.1. Types and use</p> <p>3.1.2. Specifications and quantity</p> <p>3.2. Factors considered in installation of equipment and materials in poultry house</p> <p>3.2.1. Time</p> <p>3.2.2. pattern</p> <p>3.2.3. Safety precautions</p> <p>3.2.4. Number of birds</p> <p>3.3. Testing-running of the equipment</p> <p>3.3.1. Heat source</p> <p>3.3.2. Waterers</p> <p>3.3.3. Feeders</p> <p>3.3.4. Ventilation</p> <p>3.3.5. Lighting</p>	<ul style="list-style-type: none"> • Written tests • Observation • Oral questions • Third party report • Interviewing • Project and report writing

Suggested Methods of instructions

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

- Audio-visual aids
- Modelling

Recommended Resources for 25 Trainees

Functional poultry farm with the following:

General Resources	Tools and Equipment	Materials and Supplies
<ul style="list-style-type: none"> • Poultry house • Equipment <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
• 25 Desktop computers/laptops	25 mobile phones	Flashcards
• Internet connection	Telephone	Flip charts
• 1 Projector • 1 Printer		2 packets of assorted colors of whiteboard marker pens
• 1 Whiteboard		Printing papers
• 5 Business plan templates • 1 Overhead projectors • Internet • Video clips • 5 Newspapers and Handouts • 5 Business Journals		<ul style="list-style-type: none"> • 25 sets of Writing materials Stationery • Charts

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