

MANAGEMENT OF BROILER CHICK BROODING

UNIT CODE: 0811 251 02A

TVET CDACC UNIT CODE: POL/CU/BR/CR/02/3/MA

Relationship to Occupational Standards

This unit addresses the Unit of Competency: Manage Broiler Chick Brooding

Duration of Unit: 120 hours

Unit Description

This unit specifies the competencies required to manage broiler chick brooding. It involves preparing chick brooder, acquiring day-old chicks, feeding brooding chicks, managing brooder house microclimate, maintaining brooder hygiene and performing chick vaccination. It also entails controlling poultry vermin, controlling poultry predators and monitoring chick performance.

Summary of Learning Outcomes

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

S/No	Learning Outcomes	Duration (Hours)
1.	Prepare chick brooder	10
2.	Acquire day-old chicks	10
3.	Feed brooding chicks	20
4.	Manage brooder house micro climate	10
5.	Maintain brooder hygiene	10
6.	Perform chick vaccination	10
7.	Control poultry vermin	10
8.	Control poultry predators	10

9.	Monitor chick performance	30
	Total	120

Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcome	Content	Suggested Assessment Methods
1. Prepare chick brooder	1.1. Suitable brooder construction materials 1.2. Brooder assembly guidelines. 1.3. Cleaning and disinfection of brooder 1.4. Types of bedding materials 1.5. Suitable bedding materials 1.6. Sterilization of bedding materials 1.7. Cleaning and sterilization of brooder equipment. 1.8. Installation of brooder equipment <ul style="list-style-type: none"> 1.8.1. Types of brooder equipment 1.8.2. Standard operation of the equipment 1.8.3. Time schedule for placement of various equipment 1.9. Test-running the equipment	<ul style="list-style-type: none"> • Written tests • Observation • Oral questions • Third party report • Interviewing • Project
2. Acquire day-old chicks	2.1. Handling of day-old chicks 2.2. Preparing for transportation 2.3. Transportation of chicks <ul style="list-style-type: none"> 2.3.1. Cages for transportation 	<ul style="list-style-type: none"> • Written tests • Observation • Oral questions • Third party report

	2.3.2. Time of transportation 2.3.4. Safety during transportation	<ul style="list-style-type: none"> • Interviewing • Project
3. Feed brooding chicks	3.1. Feeding requirements of chicks <ul style="list-style-type: none"> 3.1.1. Amount 3.1.2. Feeding schedule 3.1.3. Ad libitum feeding 3.1.4. Light schedule 3.2. Water requirements of chicks <ul style="list-style-type: none"> 3.2.1. Quality 3.2.2. Quantity 	<ul style="list-style-type: none"> • Written tests • Observation • Oral questions • Third party report • Interviewing • Project
4. Manage brooder house micro climate	4.1. Methods of assessing micro-climatic variations in brooder house <ul style="list-style-type: none"> 4.1.1. Use of tools and equipment 4.1.2. Animal behaviour 4.1.3. Human senses 4.1.4. Non-conventional aids 4.2. Corrective measures for micro-climate variations <ul style="list-style-type: none"> 4.2.1. Temperature 4.2.2. Humidity 4.2.3. Ventilation 4.2.4. Lighting. 	<ul style="list-style-type: none"> • Written tests • Observation • Oral questions • Third party report • Interviewing • Project
5. Maintain brooder hygiene	5.1. Bio-safety practices required in brooding 5.2. Assessment of Bio-safety conformity <ul style="list-style-type: none"> 5.2.1. Staff Monitoring 5.2.3. Structures and facilities 	<ul style="list-style-type: none"> • Written tests • Observation • Oral questions • Third party report • Interviewing • Project

6. Perform chick vaccination	6.1. Chick vaccination schedule 6.2. Handling and storage of vaccines 6.3. Equipment and tools required for vaccination. 6.4. Vaccination procedures. 6.4.1. Pre- vaccination preparation 6.4.2. Actual vaccination 6.5. Chick vaccination records	<ul style="list-style-type: none"> • Written tests • Observation • Oral questions • Third party report • Interviewing
7. Control poultry vermin	7.1. Identification of vermin 7.1.1. Lice 7.1.2. Mites 7.1.3. Fleas 7.2. Vermin control measures 7.2.1. Chemical 7.2.2. Structural related 7.2.3. Cultural practices	<ul style="list-style-type: none"> • Written tests • Observation • Oral questions • Third party report • Interviewing
8. Control poultry predators	8.1. Types of predators 8.1.1. Man 8.1.2. Cats 8.1.3. Dogs 8.1.4. .Mongoose 8.1.5. Hawks 8.1.6. Rats 8.2. Predator control measures for brooder house 8.2.1. Chemical 8.2.2. Mechanical 8.2.3. Biological	<ul style="list-style-type: none"> • Written tests • Observation • Oral questions • Third party report • Interviewing

	8.2.4. Structural –related controls	
9. Monitor chick performance	<p>9.1. Growth and development pattern in chicks</p> <p>9.1.1. Feathering</p> <p>9.1.2. Weight gain</p> <p>9.2. Chick behaviour</p> <p>9.2.1. Feeding behaviour</p> <p>9.2.2. Activity</p> <p>9.3. Methods of assessing growth performance of chicks</p> <p>9.3.1. Weighing</p> <p>9.3.2. Physical appearance</p> <p>9.4. Performance assessment equipment and tools.</p> <p>9.5. Poultry vices</p> <p>9.5.1. Types</p> <p>9.5.2. Control measure</p> <p>9.6. Culling of chicks</p> <p>9.6.1. Culling criteria.</p> <p>9.6.2. Stages of culling</p>	<ul style="list-style-type: none"> • Written tests • Observation • Oral questions • Third party report • Interviewing • Project

Suggested Methods of Instruction

- Project
- Demonstration by trainer
- Practice by the trainee
- Discussions
- Direct instruction
- Case study

- Audio –visual aids

Recommended Resources

Functional Brooder house with the following:		
<ul style="list-style-type: none"> • Day old chicks • Heat source • Chick feeders • Chick drinkers • Light source 	<ul style="list-style-type: none"> • Brooder guard • Curtains • Brooder thermometer • Hygrometer • Beddings 	<ul style="list-style-type: none"> • Weighing scale • Chick feeds • Water • Vaccines • Vaccination equipment