

LAYER CHICK BROODING MANAGEMENT

ISCED UNIT CODE:0811 251 02A

TVETCDACC UNIT CODE: POL/CU/LY/CR/02/3/MA

Relationship to Occupational Standards

This unit addresses the Unit of Competency: Manage layer chick brooding

Duration of Unit: 120 hours

Unit Description

This unit covers the competencies required to brood chicks. It involves preparing chick brooder, feeding brooding chicks, managing brooder house micro climate, maintaining brooder hygiene, performing chick vaccination, 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	20
2.	Feed brooding chicks	20
3.	Manage brooder house micro climate	10
4.	Maintain brooder hygiene	10
5.	Perform chick vaccination	10
6.	Control poultry vermin	10
7.	Control poultry predators	10
8.	Monitor chick performance	30
Total		120

Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcome	Content	Methods of Assessment

1. Prepare chick brooder	<p>1.1. Suitable brooder construction materials</p> <ul style="list-style-type: none"> 1.1.1. Cardboard 1.1.2. Wooden pegs 1.1.3. Litter material <p>1.2. Cleaning and disinfection of brooder</p> <p>1.3. Types of bedding materials</p> <p>1.4. Suitable bedding materials</p> <p>1.5. Sterilization of bedding materials</p> <p>1.6. Cleaning and sterilization of brooder equipment.</p> <p>1.7. Installation of brooder equipment</p> <ul style="list-style-type: none"> 1.7.1. Types of brooder equipment 1.7.2. Standard operation of the equipment 1.7.3. Time schedule for placement of various equipment 	<ul style="list-style-type: none"> • Written tests • Observation • Oral questions • Third party report • Interviewing • Project and report writing
2. Feed brooding chicks	<p>2.1. Acquire day-old chicks</p> <p>2.2. Types of chicks feed</p> <p>2.3. Feeding requirements of chicks</p> <ul style="list-style-type: none"> 2.3.1. Amount 2.3.2. Feeding schedule 2.3.3. Ad libitum feeding 2.3.4. Light schedule <p>2.4. Water requirements of chicks</p> <ul style="list-style-type: none"> 2.4.1. Quality 2.4.2. Quantity 	<ul style="list-style-type: none"> • Written tests • Observation • Oral questions • Third party report • Interviewing • Project and report writing
3. Manage brooder house micro climate	<p>3.1. Methods of assessing micro-climatic variations in brooder house</p> <ul style="list-style-type: none"> 3.1.1. Use of tools and equipment 3.1.2. Animal behaviour 	<ul style="list-style-type: none"> • Written tests • Observation • Oral questions • Third party report

	<p>3.1.3. Human senses</p> <p>3.1.4. Non-conventional aids</p> <p>3.2. Corrective measures for micro-climate variations</p> <p>3.2.1. Temperature</p> <p>3.2.2. Humidity</p> <p>3.2.3. Ventilation</p> <p>3.2.4. Lighting</p>	<ul style="list-style-type: none"> • Interviewing • Project and report writing
4. Maintain brooder hygiene	<p>4.1. Bio-safety practices required in brooding</p> <p>4.2. Assessment of Bio-safety conformity</p>	<ul style="list-style-type: none"> • Written tests • Observation • Oral questions • Third party report • Interviewing • Project and report writing
5. Perform chick vaccination	<p>5.1. Chick vaccination schedule</p> <p>5.2. Handling and storage of vaccines</p> <p>5.3. Equipment and tools required for vaccination.</p> <p>5.4. Vaccination procedures.</p> <p>5.4.1. Pre- vaccination preparation</p> <p>5.4.2. Actual vaccination</p> <p>5.5. Chick vaccination records</p>	<ul style="list-style-type: none"> • Written tests • Observation • Oral questions • Third party report • Interviewing
6. Control poultry vermin	<p>6.1. Identification of vermin</p> <p>6.1.1. Lice</p> <p>6.1.2. Mites</p> <p>6.1.3. Fleas</p> <p>6.2. Vermin control measures</p> <p>6.2.1. Chemical</p> <p>6.2.2. Structural related</p> <p>6.2.3. Cultural practices</p>	<ul style="list-style-type: none"> • Written tests • Observation • Oral questions • Third party report • Interviewing

7. Control poultry predators	7.1. Types of predators <ul style="list-style-type: none"> 7.1.1. Man 7.1.2. Cats 7.1.3. Dogs 7.1.4. Mongoose 7.1.5. Hawks 7.1.6. Rats 7.2. Predator control measures for brooder house <ul style="list-style-type: none"> 7.2.1. Chemical 7.2.2. Mechanical 7.2.3. Biological 7.2.4. Structural –related controls 	<ul style="list-style-type: none"> • Written tests • Observation • Oral questions • Third party report • Interviewing
8. Monitor chick performance	8.1. Chick behaviour <ul style="list-style-type: none"> 8.1.1. Feeding behaviour 8.1.2. Activity 8.2. Methods of assessing growth performance of chicks <ul style="list-style-type: none"> 8.2.1. Weighing 8.2.2. Physical appearance (feathering) 8.3. Poultry vices <ul style="list-style-type: none"> 8.3.1. Types 8.3.2. Control measure 8.4. Culling of chicks <ul style="list-style-type: none"> 8.4.1. Culling criteria. 8.4.2. Stages of culling 	<ul style="list-style-type: none"> • Written tests • Observation • Oral questions • Third party report • Interviewing • Project and report writing

Suggested Methods of instructions

- Project
- Demonstration by trainer
- Practice by the trainee

- Discussions
- Direct instruction
- Case study
- Audio –visual aids

Recommended Resources for 25 Trainees

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 	