

HANDLE HATCHED CHICKS

ISCED UNIT CODE: 0811 351 03A

TVETCDACC UNIT CODE: POL/OS/HT/CR/03/4/MA

UNIT DESCRIPTION:

This unit specifies the competencies required to handle hatched chicks. It involves performing chick sexing, trimming chick beaks, monitoring chick health, packaging poultry chicks and managing unwanted chicks. It also entails managing hatchery biosecurity measures, maintaining hatchery records, operating computer devices, solving tasks using computer devices, applying communication Skills and promoting ethical work practices and values.

ELEMENTS AND PERFORMANCE CRITERIA

ELEMENT	PERFORMANCE CRITERIA
These describe the key outcomes which make up workplace function.	These are assessable statements which specify the required level of performance for each of the elements. <i>Bold and italicized terms are elaborated in the range.</i>
1. Perform chick sexing	1.1 Hatched <i>chicks</i> <i>are assessed</i> to distinguish males from females in accordance with organizational preferences and market demands 1.2 Males are separated from females in accordance with work place procedures
2. Trim chick beaks	2.1 Beak trimming equipment is identified as per <i>Poultry Production Manual (PPM)</i> 2.2 Chick beaks trimmed as per hatchery practice
3. Monitor chick health	3.1 Vaccination <i>preparations</i> are done in accordance with Poultry Production Manual (PPM) and vaccine manufacturer's guidelines 3.2 Chick vaccines are administered in accordance with the developed schedule 3.3 Vaccinated chicks are observed to ascertain vaccine intake and check for abnormal reactions in accordance with PPM and vaccine manufacturer's guidelines 3.4 Chicks are observed for signs of disease, deformities or abnormal behavior in accordance with the PPM 3.5 Unhealthy chicks are isolated as per the PPM 3.6 A veterinarian is consulted immediately for advice as per the PPM requirements

<p>4. Package poultry chicks</p>	<p>4.1 Labeled chick packaging cartons or crates are identified and gathered in accordance with animal welfare regulations, PPM guidelines and work place procedures</p> <p>4.2 Poultry chicks are transferred into packaging crates or cartons in accordance with animal welfare regulations, PPM guidelines and work place procedures</p> <p>4.3 Crates and cartons with chicks are sealed in readiness transportation in accordance with animal welfare regulations, PPM guidelines and work place procedures</p> <p>4.4 Chicks are transported in accordance with animal welfare standards</p>
<p>5. Manage unwanted chicks</p>	<p>5.1 Unwanted chicks are identified and separated for disposal according to market demand and designed biosecurity measures</p> <p>5.2 Unwanted chicks are packaged and dispatched to interested clients based on placed orders and work place procedures</p>
<p>6. Manage hatchery biosecurity measures</p>	<p>6.1 Biosecurity structures and equipment are operationalized in accordance with the PPM</p> <p>6.2 Standard operational procedures are posted at strategic points in the hatchery unit according to GMP</p> <p>6.3 Human and traffic movement into the hatchery unit is restricted and monitored according to GMP and work place policy</p> <p>6.4 Sanitization and PPEs facilities are provided for hatchery unit personnel according to GMP and work place policy</p> <p>6.5 Personal Protection Equipment and Apparel are identified, gathered and donned based on job requirements</p> <p>6.6 Occupational safety and health procedures are adhered to according to work place procedures</p> <p>6.7 Environmental protection measures are observed according to environmental protection regulations and work place procedures</p> <p>6.8 Hatchery buildings and equipment are cleaned, disinfected and fumigated according to GMP regulations and work place policy</p> <p>6.9 Hatchery waste is disposed into waste pits after passing through maceration tanks or rendering units according to</p>

	work place policy, GMP and environment protection regulations
7. Maintain hatchery records	7.1 Number of male/female chicks are entered in accordance with work place procedures 7.2 Chick vaccination details are recorded as per PPM guidelines and farm policies 7.3 Chick health records are entered in accordance with work place procedures 7.4 Details of packaged chicks are entered in accordance with work place procedures 7.5 Records per every hatch are made as per firm practice

RANGE

This section provides work environments and conditions to which the performance criteria apply. It allows for different work environment and situations that will affect performance.

Variable	Range
1. Chicks are assessed may include but not limited to:	Determination of sex of chick through; <ul style="list-style-type: none"> • Color observation • Vent observation • Feather length observation • DNA sequence
2. Poultry Production Manual (<i>PPM</i>) may include but not limited to:	<ul style="list-style-type: none"> • National Poultry Development Programme Manual • Breeder's manuals by breeders like Cobb and Issa Brown
3. Preparations may include but not limited to:	Activities that are carried out before, during and after vaccination; <ul style="list-style-type: none"> • Provision of anti-stress nutritional premixes • Feed and water withdrawal • Confirmation of bird numbers to determine dosage • Provision of disinfectant free water • Positioning vaccine receptacles in the poultry house for oral vaccines • Confine and restrain poultry for injectable and ocular-nasal vaccines
4. Unwanted chicks	<ul style="list-style-type: none"> • Culled chicks

may include but not limited to:	<ul style="list-style-type: none"> • Unhealthy chicks • Deformed chicks • Males in commercial layers
5. Vaccination details may include but not limited to:	<ul style="list-style-type: none"> • Type of vaccine • Type of disease vaccinated against • Age of poultry • Date and time of vaccination • Date of manufacture and expiry of vaccine • Vaccine source and batch number • Route of vaccine administration (IM, wing stab, sub cutaneous, intra nasal, intra ocular or spray) • Number of birds vaccinated • Identification of birds (flock, type, breed)
6. Operationalized may include but not limited to:	<ul style="list-style-type: none"> • Placing disinfectants in foot baths and spray jet tanks • Placing fumigants in fumigation chamber tanks • Pumping disinfection spray jets
7. Restricted and monitored may include but not limited to:	<ul style="list-style-type: none"> • Placing screening barriers at sentry gates • Implementing visitor identification systems e.g. badges • Having visitors to fill a questionnaire indicating previous visits to other poultry farms in the past one week • Barring vehicles and unauthorized persons from accessing poultry houses and surrounding vicinities
8. PPE may include but not limited to:	<ul style="list-style-type: none"> • Overalls • Gumboots • Nose and mouth mask • Goggles • Gloves • Head gear
9. Environment protection regulations may include but not limited to:	<p>Guidelines designed and enforced by:</p> <ul style="list-style-type: none"> • National Environmental Management Authority • Ministry of Health
10. Hatchery waste may include but	<ul style="list-style-type: none"> • Fluff • Contaminated eggs

not limited to:	<ul style="list-style-type: none"> • Hatched egg shell debris • Pipped chicks (dead in shell) • Unhatched eggs • Dead chicks • Meconium droppings
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REQUIRED SKILLS AND KNOWLEDGE

This section describes the skills and knowledge required for this unit of competency.

Required skills

The individual needs to demonstrate the following skills:

- Chick handling
- Cleaning
- Colour sexing
- Communication
- Feather length sexing
- Observation
- Record keeping
- Vaccination
- Vent sexing

Required knowledge

The individual needs to demonstrate knowledge of:

- Chick environmental physiology
- Chick packaging
- Chick vaccination at the hatchery
- Chick vaccination methods and routes
- Chick welfare
- Cleaning, sanitization and disinfection procedures
- Early chick feeding
- Hatchery air conditioning
- Hatchery biosecurity measures
- Hatchery record keeping
- Heat transfer
- Humane killing
- Waste disposal maceration and rendering techniques
- Methods of chick sexing
- Mode of disease and parasite spread
- Occupational safety and health
- Personal hygiene and public health

- Types of cleaning agents, sanitizers and disinfectants
- Types of early chick vaccines
- Types of hatchery records
- Vaccination and vaccine records
- Vaccine care and handling
- Vaccine reaction sites

EVIDENCE GUIDE

This provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge and range

1. Critical Aspects of Competency	<p>Assessment requires evidence that the candidate:</p> <p>1.1 Implemented hatchery biosecurity measures according to standard operating procedures (SOP)</p> <p>1.2 Identified sex of chicks using appropriate method of sexing</p> <p>1.3 Implemented chick vaccination programme</p> <p>1.4 Handled chicks safely in accordance with PPM guidelines</p> <p>1.5 Disposed hatchery waste following recommended environmental protection regulations</p> <p>1.6 Kept recommended hatchery records according to work place procedures</p>
2. Resource Implications	<p>The following resources must be provided:</p> <p>2.1 Assessment location / workplace</p> <p>2.2 Personal Protective Equipment and Apparel</p> <p>2.3 Assessment materials</p>
3. Methods of Assessment	<p>Competency may be assessed through:</p> <p>3.1 Observation</p> <p>3.2 Written tests</p> <p>3.3 Oral questioning</p> <p>3.4 Third party report</p>
4. Context of Assessment	<p>Competency may be assessed on the job, off the job or during industrial attachment. Off the job assessment must be undertaken in a closely simulated workplace environment.</p>
5. Guidance information for assessment	<p>Holistic assessment with other units relevant to the industry sector, workplace and job roles is recommended.</p>