



Australian Government

AHCPLY310 Incubate eggs

Release: 1

AHCPLY310 Incubate eggs

Modification History

Release	Comments
Release 1	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 9.0.

Application

This unit of competency describes the skills and knowledge required to incubate eggs, including the operation and monitoring of egg setting and hatching equipment.

This unit applies to workers who apply technical knowledge and skills with discretion and judgement to incubate poultry eggs in commercial production environments. They work under broad direction, coordinate activities and solve problems related to egg incubation. Workplaces may include poultry breeding farms and egg incubation facilities.

Commonwealth and/or state/territory health and safety, animal welfare, environmental protection and biosecurity legislation, regulations and codes of practice apply to working with fertilised poultry eggs, and the use of fumigants. Requirements vary between jurisdictions.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Unit Sector

Poultry (PLY)

Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Receive and store eggs	1.1 Identify and implement enterprise biosecurity procedures that apply to incubating eggs 1.2 Identify tasks to be undertaken from work plan 1.3 Identify health and safety hazards, and assess and control risks

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	associated with fumigating, operating, transferring eggs and carrying out the hatching process 1.4 Select and fit personal protective equipment (PPE) required for fumigating, operating, transferring eggs and carrying out the hatching process 1.5 Check egg storage plant, equipment and tools in readiness to receive eggs 1.6 Unload eggs from delivery vehicle, transfer to setter trolleys and record temperature, humidity, storage period and other required information 1.7 Attach eggs to turning machine and manage eggs according to enterprise requirements 1.8 Monitor and adjust temperature, humidity and airflow to maintain required conditions 1.9 Complete ongoing records and report issues according to enterprise requirements
2. Fumigate setter and/or incubator	2.1 Identify fumigation requirements according to work plan 2.2 Prepare fumigant and application equipment and PPE 2.3 Fit PPE, seal room and fumigate for required period 2.4 Ventilate room or chamber to remove unsafe remnants of the fumigant prior to re-entry of staff, re-installation of equipment and placement of eggs
3. Monitor and operate setter	3.1 Calibrate temperature probes in setter according to manufacturer and/or enterprise requirements 3.2 Check and record setter readings 3.3 Recognise alarms and carry out specified sequence of operations 3.4 Operate and maintain setter to consistently meet required settings
4. Transfer eggs and operate incubator	4.1 Move trollies and/or pallets to egg handling and transfer area according to sequence required by enterprise 4.2 Check incubator temperature, humidity and airflow, and adjust to maintain required conditions according to developmental stage of eggs 4.3 Transfer eggs to hatching trays according to predetermined sequence 4.4 Recognise alarms and carry out specified sequence of operations

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
5. Carry out hatching processes	5.1 Operate incubator and/or hatcher and record temperature, humidity and airflow as required 5.2 Transition eggs into hatching stage 5.3 Recognise alarms and carry out specified sequence of operations 5.4 Vaccinate viable hatchlings and complete processes required to transfer chicks to brooding destination
6. Clean and/or sanitise work areas and equipment	6.1 Identify health and safety hazards, and assess risks and control risks for cleaning and/ or sanitising 6.2 Select and fit appropriate PPE required for cleaning and/ or sanitising 6.3 Measure chemicals and prepare cleaning fluids safely according to supplier instructions and enterprise procedures 6.4 Check and prepare cleaning equipment 6.5 Clean and/or disinfect work areas, tools, equipment and surfaces according to enterprise health, safety, personal hygiene and biosecurity procedures 6.6 Dispose of waste according to enterprise biosecurity and environmental procedures 6.7 Maintain and store tools, equipment and machinery 6.8 Complete records and report issues according to enterprise requirements

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential for performance in this unit of competency but are not explicit in the performance criteria.

Skill	Description
Reading	- Interpret textual information in enterprise procedures, forms and work standards related to egg incubation - Interpret key information available from supplier manuals for the operation and maintenance of egg incubation equipment

Skill	Description
Writing	Use industry terminology to record information related to egg incubation
Numeracy	Measure, estimate and calculate quantity, weight, area, volume, ratio and temperature

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCPLY310 Incubate eggs	AHCPLY304 Incubate eggs	Major changes to all sections of the unit Hatchling vaccination added Foundation skills added Performance evidence, knowledge evidence and assessment conditions updated	Not equivalent

Links

Companion Volumes, including Implementation Guides, are available at VETNet: -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72>

Assessment Requirements for AHCPLY310 Incubate eggs

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Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.

There must be evidence that the individual has safely and efficiently incubated at least two separate batches of fertilised poultry eggs.

Each batch must include at least 20 eggs, and for each batch, the individual must have, according to enterprise requirements:

- identified and applied enterprise health and safety, animal welfare, biosecurity and environmental protection procedures related to preparing plant and equipment to incubate eggs
- identified egg quantities and specific requirements from work program
- followed personal hygiene requirements
- identified at least three different health and safety hazards, and assessed and controlled associated risks
- selected, checked and correctly fitted appropriate personal protective equipment (PPE)
- received, transferred and stored eggs, including recording required information
- monitored and operated setter, including:
 - calibrated temperature probes
 - checked, recorded and adjusted settings
 - carried out predetermined sequence of actions in response to alarms
- transferred eggs to hatcher, and checked and adjusted hatcher settings to achieve required conditions
- safely fumigated setter and/or hatcher and ensured safe removal of fumigant afterwards
- monitored and operated hatcher
- completed processes to transfer hatchlings to brooding destination
- safely prepared cleaning equipment, and cleaned and/or sanitised working surfaces, equipment and tools
- removed and disposed of waste
- completed egg incubation records and/or reports.

Knowledge Evidence

An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:

- key features of state/territory legislation, regulations and codes of practice for worker health and safety, animal welfare, biosecurity and environment protection that apply to incubating poultry eggs
- enterprise procedures and requirements for worker health and safety, animal welfare, biosecurity and environment protection that apply to incubating poultry eggs
- hazard identification, risk assessment and controls to minimise risks when incubating poultry eggs
- requirements, methods and procedures for handling, unloading, storing, transferring and turning eggs
- types, uses, cleaning, maintenance and storage of machinery, equipment and tools used in incubating operations, including temperature probe calibration
- range, effects and impacts of environmental parameters on incubating eggs, including temperature, humidity and ventilation
- types, handling, use and disposal of fumigating agents, including enterprise health, safety and environmental procedures for fumigants
- selection criteria for determining viable and non-viable hatchlings
- appropriate treatments to prepare hatchlings for transfer to next destination, including vaccination
- enterprise procedures for disposal and management of waste, including biosecurity and environmental requirements
- enterprise requirements and procedures for cleaning and maintaining egg incubation work areas
- regulatory and enterprise documentation, records and reports required for incubation of poultry eggs.

Assessment Conditions

Assessment of the skills in this unit of competency must take place under the following conditions:

- physical conditions:
 - a commercial poultry egg incubation facility or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - live fertilised eggs specified in performance evidence
 - poultry egg incubation facility, materials, resources, tools and equipment, including egg setter, hatcher and
 - safety data sheets
- specifications:
 - enterprise health and safety, animal welfare, biosecurity and environmental protection procedures for the activities.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

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