Modification history

Release	Comments
Release 1	This version released with SFI Seafood Industry Training Package Version 1.0

SFIAQU308	Support hatchery operations
Application	This unit of competency describes the skills and knowledge required to support hatchery operations, including monitoring the collection and care of broodstock, breeding and raising progeny, and preparing stock for distribution.
	The unit applies to individuals who have responsibility for conditioning and spawning operations in an aquaculture hatchery, working under broad direction and having limited responsibility for the work of others.
	All work must be carried out to comply with workplace procedures, according to state/territory health and safety, biosecurity and environmental regulations, legislation and standards that apply to the workplace.
	No licensing, legislative or certification requirements apply to this unit at the time of publication.
Prerequisite Unit	Nil
Unit Sector	Aquaculture (AQU)

Elements	Performance Criteria
Elements describe the	Performance criteria describe the performance needed to demonstrate
essential outcomes.	achievement of the element.
1. Prepare for hatchery	1.1 Interpret and confirm hatchery requirements with supervisor
production	1.2 Confirm labour and equipment requirements with supervisor
	1.3 Identify risk factors that could affect the quality of the end cultured or held stock progeny, and plan to minimise risk
	1.4 Communicate with team members on hatchery production operations
2. Collect and care for broodstock	2.1 Provide clean, functional conditions for all stock according to workplace procedures and hygiene requirements
	2.2 Ensure selected broodstock are maintained in their selected structure or system with minimal stress
	2.3 Condition broodstock to induce maturation or breeding and spawning behaviour
	2.4 Ensure identified broodstock to be spawned are maintained in an
	optimal condition prior to spawning
	2.5 Monitor and maintain water quality requirements of broodstock according to workplace procedures
3. Breed and raise progeny	3.1 Monitor signs of imminent spawning and control environment to ensure successful spawning
	3.2 Collect spawn according to workplace procedures
	3.3 Assess the quality of eggs and sperm and undertake fertilisation of the eggs, if appropriate
	3.4 Apply post-spawning broodstock husbandry techniques as required 3.5 Hatch fertilised eggs and care for progeny according to workplace procedures
	3.6 Monitor and document water quality, stock behaviour and environmental parameters, identifying changing conditions and taking appropriate action
4. Harvest and distribute	4.1 Select progeny through quality assessment with supervisor, and harvest
progeny	progeny
	4.2 Grade, sort and transport progeny to new on-farm culture or holding structures
	4.3 Note, harvest and pack order requirements for external transport

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Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
5. Complete breeding activities	 5.1 Check cleaning of work area and disposal of waste materials is completed according to workplace procedures and environmental requirements 5.2 Check condition and storage of tools and equipment, and forward repair requirements to supervisor 5.3 Record relevant data and observations and report any abnormal records to supervisor

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	Interprets order requirements
Writing	 Completes workplace records legibly and accurately using correct technical terminology Prepares labels for shipment of containers
Numeracy	 Estimates time and resources needed for hatchery production activities Counts and estimates quantities of stock, feed and containers Uses length, size, weight and other relevant criteria to sort and grade stock Reconciles stock quantities against order requirements
Oral communication	Explains basic hatchery operations and schedule using language appropriate for audience
Interact with others	Collaborates, cooperates and assists others with hatchery job requirements
Get the work done	Uses key functions and features of workplace systems to record data and observations and to operate automated hatchery equipment

Unit Mapping Information			
Code and title current version	Code and title previous version	Comments	Equivalence status
SFIAQU308 Support hatchery operations	SFIAQUA314A Support hatchery operations	Updated to meet Standards for Training Packages	Equivalent unit
		Minor changes to elements and performance criteria for clarity	

Links	Companion Volumes, including Implementation Guides, are available at VETNet:
	https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=e31d8c6b- 1608-4d77-9f71-9ee749456273

Assessment requirements for SFIAQU308 Support hatchery operations		
Performance Evidence		
ompetency must satisfy all of the elements and performance criteria in this he individual has, on at least one occasion, monitored hatchery operations roodstock, breeding and raising of progeny and preparation of stock for rements with supervisor and team members processes and putting controls in place to mitigate risk and minimise impact t handling of animals throughout their lifecycle water quality and environmental parameters during all growing cycles y standards when harvesting progeny for distribution d functional work area during and after hatchery operations rds on hatchery operations itions and taking appropriate action.		
demonstrate the knowledge required to perform the tasks outlined in the teria of this unit. This includes knowledge of: for hatchery operations		

- safe work practices relating to hatchery operations
- relevant legislation, including biosecurity control measures relevant to hatchery operations.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated in an aquaculture hatchery or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - broodstock or seedstock
 - equipment for caring for and raising progeny
 - monitoring equipment
- specifications:
 - hatchery production schedule and workplace procedures for hatchery operations, including advice on health and safety, hygiene and environmental requirements
- relationships:
 - evidence of interactions with supervisor and team members.

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

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