



Australian Government

SFIAQU404 Operate hatchery

Release: 1

SFIAQU404 Operate hatchery

Modification History

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

Application

This unit of competency describes the skills and knowledge required to oversee the breeding, culling and raising of broodstock and progeny and preparing for distribution in hatchery operations.

The unit applies to individuals who have responsibility for aquaculture hatchery production and use specialised technical skills and knowledge to manage the work team and operations.

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

Pre-requisite Unit

Nil

Unit Sector

Aquaculture (AQU)

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. Select, condition and spawn broodstock	1.1 Confirm breeding objectives, selection aims and strategies with management 1.2 Confirm hatchery production schedule, labour and resource requirements, health and safety and risk minimisation procedures with production personnel 1.3 Ensure quality of broodstock selection is met according to workplace requirements 1.4 Manage the broodstock conditioning, spawning and recovery

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	<p>process</p> <p>1.5 Identify broodstock to be spawned again at a later date and move to holding tanks or areas</p>
2. Select or cull progeny	<p>2.1 Manage progeny husbandry to ensure high survival and growth or other selection criteria</p> <p>2.2 Carry out quality assessment of progeny regularly and cull or remove inferior progeny</p> <p>2.3 Monitor progeny health and promptly control any disease outbreaks, sending samples to relevant authorities</p> <p>2.4 Monitor effects of feed and health treatments on progeny and take actions to avoid or minimise health problems and negative effects on product quality</p> <p>2.5 Monitor progeny growth and development using an appropriate performance recording system</p> <p>2.6 Carry out harvesting to meet hatchery production plan</p> <p>2.7 Maintain breeding records according to industry standards and breeding program requirements</p>
3. Monitor, review and improve hatchery performance	<p>3.1 Review the progress of hatchery production plan with management</p> <p>3.2 Maintain and analyse physical and financial evaluations of hatchery performance</p> <p>3.3 Obtain and assess information on innovations to determine relevance and possible application</p> <p>3.4 Test innovations to determine suitability and adaptability to individual circumstances, their benefit and cost, and report outcomes to management team</p> <p>3.5 Discuss selection aims, breeding objectives and strategies with management team</p>

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	<ul style="list-style-type: none"> Interprets production plans and order requirements Researches and analyses information about hatchery operations from a range of sources
Writing	<ul style="list-style-type: none"> Completes workplace documentation relating to hatchery operations legibly and accurately
Numeracy	<ul style="list-style-type: none"> Calculates and estimates quantities of stock Records and interprets data relating to water quality Monitors and analyses costs of hatchery operations
Oral communication	<ul style="list-style-type: none"> Explains hatchery operation responsibilities to staff using language appropriate for audience
Interact with others	<ul style="list-style-type: none"> Collaborates with others contributing knowledge, ideas and skills to achieve improvements in stock quality and hatchery operations
Get the work done	<ul style="list-style-type: none"> Assesses options, taking into consideration a range of relevant factors, and tests and reports on continuous improvements for hatchery operations Uses familiar digital systems and tools to access, organise, analyse and display information relevant to role and hatchery operations

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
SFIAQU404 Operate hatchery	SFIAQUA404C Operate hatchery	Updated to meet Standards for Training Packages	Equivalent unit

Links

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