



Australian Government

SFIAQU406 Implement low water exchange microbial floc technologies

Release: 1

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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 implement the production of cultured stock, specifically marine prawns, using low water exchange microbial floc technologies.

The unit applies to individuals who have specialised aquaculture knowledge and skills and responsibility for overseeing staff to prepare the culture system and produce stock to meet workplace and industry requirements.

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.

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. Plan and organise for stock introduction	1.1 Prepare culture system according to workplace requirements or appropriate literature and biosecurity control measures

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.2 Define water quality and biological parameters to be monitored 1.3 Develop plans that outline monitoring frequency, data management and production thresholds 1.4 Determine equipment requirements for low water exchange microbial floc technologies, check for availability and serviceability, and get ready for use 1.5 Make repairs and calibrations according to workplace and health and safety procedures 1.6 Brief staff on responsibilities according to production schedule
2. Carry out production procedures	2.1 Carry out stock production techniques using low water exchange microbial floc technologies 2.2 Monitor water quality and biological parameters according to workplace procedures 2.3 Preserve samples for external analysis and pack and send to laboratory according to workplace requirements 2.4 Introduce chemical and biological additives into the culture environment as required 2.5 Provide feedback to staff on production performance
3. Record and analyse relevant data	3.1 Record data gathered from production and monitoring procedures 3.2 Analyse data and report to management 3.3 Modify production techniques based on analysis according to workplace procedures

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 production plans and monitoring schedules - Researches and analyses technical information from a range of sources - Analyses data and interprets trends

Skill	Description
Writing	Records and presents data accurately and in required format
Numeracy	- Sets and adjusts measurement scale to calibrate monitoring equipment - Calculates ratios, percentages and volumes - Applies mathematical concepts related to stocking density and yields
Oral communication	Participates in verbal exchanges to convey and explain information clearly using language appropriate for the audience
Navigate the world of work	Works independently and collectively within broad parameters, taking responsibility for plans, decisions and outcomes relating to stock production
Interact with others	Collaborates with others contributing knowledge and skills to achieve work outcomes
Get the work done	- Uses systematic, analytical processes to identify and solve problems and make decisions relating to stock production using low water exchange microbial floc technologies - Uses workplace digital systems and tools to access, organise, and analyse information relevant to stock production

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
SFIAQU406 Implement low water exchange microbial floc technologies	Not applicable	New unit	No 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>