



Australian Government

Assessment Requirements for SFIAQU406 Implement low water exchange microbial floc technologies

Release: 1

Assessment Requirements for SFIAQU406 Implement low water exchange microbial floc technologies

Modification History

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

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 implemented the production of cultured stock using low water exchange microbial floc technologies on at least one occasion, including:

- preparing the culture system and microscopy equipment for production
- coordinating staff in stock production activities
- monitoring and modifying the production system based on water quality and biological testing
- documenting data and analysis of production outcomes.

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:

- principles and features of microbial floc ecosystems and management
- biology and chemistry of water bodies
- collection and submission processes for samples sent for external analyses
- monitoring equipment:
 - calibration and operating methods
 - maintenance and repairs
 - options and limitations
- legislation and regulations, including biosecurity, relevant to the production of cultured stock using low water exchange microbial floc technologies
- types of water quality tests and techniques for testing
- key features of normal and abnormal stock behaviour and environmental conditions
- methods of identification for a range of algae species
- nitrogen conversion pathways relevant to the production of cultured stock
- conditions that promote biofloc.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated in an aquaculture workplace or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - facility or system to implement low water exchange microbial floc technologies
 - cultured stock (marine prawns)
 - monitoring and testing equipment
 - data sets and records to analyse
- specifications:
 - workplace forms and technology for recording data
- relationships:
 - evidence of interactions with staff members.

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

Links

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