



Australian Government

Assessment Requirements for SFIAQU212 Operate and maintain a recirculating aquaculture system

Release: 2

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Modification History

Release	Comments
Release 2	This version released with SFI Seafood Industry Training Package Version 2.0.
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 safely operated and maintained at least one recirculating aquaculture system on at least one occasion, including:

- communicating with and reporting to supervisor about the operation and maintenance of water treatment components
- fitting and adjusting personal protective equipment
- carrying out the required maintenance and repairs to components
- carrying out routine monitoring and checks of equipment, flow rates and water quality
- completing accurate records on the operation and maintenance of water treatment components
- cleaning work area and storing tools and equipment after maintenance and repair activities.

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:

- basic relationship of inputs (stock, feed, energy, water and labour) to outputs (wastes, product and water quality)
- overview of complexity of system and interrelationship of components
- environmental and biosecurity regulatory requirements
- conditions likely to impact on water flow
- health and safety relevant to operating and maintaining water treatment components
- operation and maintenance of automatic or mechanised equipment

- features of water quality and optimal and critical limits for various parameters and non-standard conditions.

Assessment Conditions

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

- physical conditions:
 - skills must be demonstrated in an aquaculture workplace setting or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - basic tools and equipment to complete repairs and maintenance
 - equipment to operate the system and maintain water quality
 - personal protective equipment
 - recirculating aquaculture system (RAS) with high technology components
 - spare parts and repair materials
 - water monitoring equipment
 - data or recording sheets
- specifications:
 - specific instructions, work plan or schedule and workplace procedures for operating and maintaining high technology water treatment components
- relationships:
 - evidence of interactions with supervisor.

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>