



Australian Government

**Assessment Requirements for SFIAQU307
Monitor the operations of 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 monitored the operations of a recirculating aquaculture system on at least one occasion, including:

- identifying and confirming work plan or maintenance schedule requirements with supervisor and team members
- identifying appropriate components and equipment or technology required to perform tasks, including the fitting of personal protective equipment
- applying risk assessment processes and controls to mitigate risk and minimise impact
- repairing and replacing components according to maintenance schedule
- performing checks and calibrations and adjusting systems as required against workplace parameters to optimise conditions for stock
- maintaining a clean and functional work area following monitoring and maintenance activities
- maintaining accurate records on monitoring and maintenance work.

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:

- procedures for the operation and maintenance of recirculating aquaculture system components
- main biological and environmental requirements of the culture or holding species
- key impacts of inputs on systems and component operation, such as maximum stocking, feeding and waste loads

- water quality, optimal and critical limits for various parameters and non-standard conditions
- health and safety practices and risks associated with operation and maintenance of recirculating aquaculture systems
- risk management for events, such as blackouts, brownouts and equipment breakdowns
- procedures for collecting data and recording and reporting on operation, monitoring and maintenance activities
- relevant legislation relating to monitoring operations of high technology water treatment components.

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 or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - personal protective equipment
 - recirculating aquaculture system components
 - water monitoring equipment
 - other equipment as needed to operate the system and maintain water quality
 - spare parts and repair materials
 - forms or systems for recording data
- specifications:
 - workplace requirements for basic and advanced environmental parameters, and water quality parameters for culture or holding stock
 - work plan, schedule or work instructions for the operation and maintenance of recirculating aquaculture system components
 - workplace procedures for operating and maintaining recirculating aquaculture systems
 - manufacturer instructions for operating and maintaining high technology water treatment system or components
- 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.

Links

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