Assessment Requirements for SFIAQU307 Monitor the operations of a recirculating aquaculture system

# Modification History

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| 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 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 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 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:
* 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.education.gov.au/Pages/TrainingDocs.aspx?q=e31d8c6b-1608-4d77-9f71-9ee749456273>