

# 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.	

## **Application**

This unit of competency describes the skills and knowledge required to monitor the operation and maintenance of a recirculating aquaculture system (RAS) used to grow or hold stock. It includes the ability to brief team members on operations and routine maintenance, and record and analyse data.

The unit applies to individuals who are responsible for monitoring processes and operations in an aquaculture environment, who work under broad direction.

All work must be carried out to comply with workplace procedures, according to state/territory health and safety, food 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	
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.	

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Elements	Performance Criteria			
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.			
1. Plan for the operation of a recirculating	1.1 Interpret and confirm operations and routine maintenance work plan or schedule with supervisor			
aquaculture system	1.2 Confirm labour and equipment or technology requirements with supervisor			
	1.3 Identify workplace requirements for optimal ranges for basic environmental parameters, advanced environmental parameters and water quality parameters affecting cultured or held stock			
	1.4 Confer with team members on basic operations and routine maintenance according to work plan or schedule			
	1.5 Confirm contingency plans and relay to team members			
2. Optimise system operations	2.1 Identify appropriate components for operations, including personal protective equipment			
	2.2 Perform pre-operational checks and calibrations			
	2.3 Monitor culture conditions and operation of components, and adjust to optimise conditions			
	2.4 Alter operation or production schedule as required to compensate for factors affecting cultured or held stock during operations			
3. Monitor maintenance	3.1 Confirm maintenance schedule with team members			
schedule	3.2 Monitor repairs and maintenance for pre-operation, standard operation and post-operation according to maintenance schedule			
	3.3 Arrange repair or replacement of worn or damaged components			
	3.4 Check and confirm optimal operation of components following maintenance			
4. Finalise operation, monitoring and maintenance activities	4.1 Check cleaning of work area and disposal of waste materials are completed according to workplace procedures and environmental requirements			
	4.2 Check condition, maintenance requirements and storage of tools and equipment			
	4.3 Record relevant data and observations, and report any abnormal records to supervisor			

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#### **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	<ul> <li>Interpret work plan and operational and maintenance schedules</li> <li>Interpret equipment manufacturer specifications and safety data sheet (SDS) labels</li> </ul>		
Writing	Complete workplace records and checklists legibly and accurately using correct technical terminology		
Numeracy	<ul> <li>Estimate time and resources needed for required activities</li> <li>Calculate volumes and quantities of treatments</li> </ul>		
Oral communication	Explain basic operations and routine maintenance requirements using language appropriate for audience		
Interact with others	Collaborate, cooperate and assist others with job requirements		
Get the work done	Use key functions and features of a recirculating aquaculture system to record data and observations		

# **Unit Mapping Information**

Code and title current version	Code and title previous version	Comments	Equivalence status
SFIAQU307 Monitor	SFIAQU307 Monitor	Minor update to	Equivalent
the operations of a	the operations of a	performance criteria and	
recirculating	recirculating	performance evidence for	
aquaculture system	aquaculture system	clarity regarding the use of	
Release 2	Release 1	technology	

#### Links

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

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