



Australian Government

SFIAQU304 Maintain water quality and environmental monitoring

Release: 2

SFIAQU304 Maintain water quality and environmental monitoring

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 maintain water quality and environmental monitoring for the protection of appropriate conditions for aquatic cultured or held stock. It includes recording data and the ability to brief team members on monitoring and sampling activities, and the use of monitoring equipment or technology.

The unit applies to individuals who have responsibility for ensuring appropriate conditions for stock in an aquaculture setting, working under broad direction.

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

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1. Plan for monitoring	1.1 Identify water quality and environmental parameters to be monitored 1.2 Collect required equipment, including personal protective equipment, and check for serviceability 1.3 Confer with team members on routine monitoring tasks to be completed and the correct use of the required equipment or technology
2. Observe monitoring and sampling activities	2.1 Check monitoring and sampling tests are undertaken according to workplace procedures 2.2 Collect and store samples that require further analysis according to workplace requirements 2.3 Ensure water quality and monitoring data has been recorded according to workplace procedures
3. Complete monitoring activities	3.1 Check cleaning of work area and disposal of waste materials is completed according to workplace procedures 3.2 Check condition, maintenance requirements and storage of tools and equipment 3.3 Record relevant data and observations, and report any abnormal records to supervisor

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	Interpret manufacturer specifications for monitoring equipment
Writing	Complete workplace forms legibly and accurately using correct technical terminology
Numeracy	- Measure and calculate volume - Interpret settings and results on monitoring machines and test kits
Oral communication	Explain observed monitoring data to supervisor or other staff using appropriate language

Skill	Description
Interact with others	Understand what to communicate, with whom and how, in routine work situations
Get the work done	Sequence and allocate water quality and environmental monitoring activities for self and others

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
SFIAQU304 Maintain water quality and environmental monitoring Release 2	SFIAQU304 Maintain water quality and environmental monitoring Release 1	Minor update to application, performance criteria and performance evidence for clarity regarding the use of technology	Equivalent

Links

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

Assessment Requirements for SFIAQU304 Maintain water quality and environmental monitoring

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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 maintained water quality and environmental monitoring activities on at least one occasion, including:

- coordinating and briefing team members on water quality and environmental monitoring activities
- fitting personal protective equipment
- preparing, using and maintaining monitoring equipment or technology
- checking that samples for analysis have been collected and stored correctly
- maintaining accurate records on monitoring activities
- monitoring the cleaning of the work area after monitoring 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:

- routine and non-routine water quality and environmental parameters relevant to aquatic stock and/or facility
- types and purposes of water quality tests and sampling used in the workplace
- procedures for monitoring collection, preservation and submission of samples for analysis
- types, purpose and function of monitoring equipment options
- operating methods and maintenance of monitoring equipment
- relevant legislation relating to maintaining water quality and environmental parameters for aquatic stock.

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:
 - monitoring equipment
 - water quality sampling tests
 - personal protective equipment
 - culture or holding structure and medium
 - recording or reporting forms
- specifications:
 - workplace procedures for monitoring water quality and environmental factors, including advice on health and safety requirements
- relationships:
 - evidence of interactions with team members.

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

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