



Australian Government

SFIAQU205 Monitor water quality

Release: 1

SFIAQU205 Monitor water quality

Modification History

Release	Comments
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 use basic monitoring equipment to test the water quality and environmental conditions for cultured and held stock.

The unit applies to individuals who carry out basic monitoring activities in an aquaculture setting under the direction of a supervisor.

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. Licences may be required if operating vehicles or vessels.

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>
1. Prepare for monitoring	1.1 Receive instructions for monitoring schedule from supervisor and confirm understanding 1.2 Collect required equipment, including personal protective equipment, and check for serviceability

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
2. Carry out monitoring	2.1 Perform water quality tests according to monitoring schedule 2.2 Check water quality parameters against acceptable range 2.3 Collect and prepare samples of water as instructed by supervisor
3. Complete monitoring activities	3.1 Clean work area and dispose of waste materials safely according to workplace procedures 3.2 Check and store tools and equipment, reporting any identified repair requirements to supervisor 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	Interprets text in workplace procedures, monitoring schedule and instructions
Writing	Fills out workplace records legibly and accurately
Numeracy	- Completes basic calculations for measuring water quality - Interprets numbers and symbols on testing equipment and meters - Checks measurement standard to calibrate equipment
Oral communication	- Asks questions to clarify job requirements - Describes abnormal records to supervisor using correct terminology

Unit Mapping Information

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
SFIAQU205 Monitor water quality	SFIAQUA213C Monitor stock and environmental conditions	Updated to meet Standards for Training Packages Content relating to water testing has been incorporated into this unit All other content has been incorporated into SFIAQU207 Monitor stock and environmental conditions	No equivalent unit

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 SFIAQU205 Monitor water quality

Modification History

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 water quality and environmental conditions for aquaculture stock on at least one occasion, including:

- communicating with and reporting to supervisor on monitoring activities
- using appropriate equipment, including personal protective equipment
- completing required water quality tests and samples
- operating and maintaining basic monitoring equipment
- completing accurate records on monitoring observations
- cleaning work area and equipment and storing tools and equipment.

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:

- workplace sampling and monitoring procedures for monitoring water quality and environmental conditions
- operation of monitoring equipment
- use and purpose of basic sampling equipment
- environmental conditions to be monitored
- basic water quality factors and their impact on stock
- parameters to be monitored and accepted workplace ranges
- safe work practices and environmental requirements relevant to monitoring water quality and environmental conditions.

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:
 - monitoring schedule
 - culture and sampling equipment for stock culture environment
 - personal protective equipment
 - culture or holding environment to monitor
 - data or recording sheets
- specifications:
 - workplace procedures for monitoring environmental conditions
- 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>