

Modification history

Release	Comments
Release 1	This version released with SFI Seafood Industry Training Package Version 1.0.

SFIAQU308	Maintain water quality and environmental monitoring
Application	<p>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 the ability to brief team members on monitoring and sampling activities, monitoring equipment, and record data.</p> <p>The unit applies to individuals who have responsibility for ensuring appropriate conditions for stock in an aquaculture setting, working under broad direction and having limited responsibility for the work of others.</p> <p>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.</p> <p>No occupational licensing, legislative or certification requirements apply to the unit at the time of publication.</p>
Prerequisite Unit	Nil
Unit Sector	Aquaculture (AQU)

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. Plan for monitoring	1.1 Interpret monitoring schedule and identify water quality and environmental parameters to be monitored 1.2 Collect required equipment, including personal protective equipment and check for serviceability 1.3 Make basic repairs to sub-standard equipment and calibrate equipment according to manufacturer instructions 1.4 Brief team members on routine monitoring responsibilities according to monitoring schedule
2. Observe monitoring and sampling activities	2.1 Check monitoring and sampling tests are undertaken according to monitoring schedule and health and safety requirements 2.2 Check that samples have been preserved, packaged and sent for external analysis according to workplace and laboratory 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 and environmental requirements 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	
<i>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.</i>	
Skill	Description
Reading	<ul style="list-style-type: none"> Interpret manufacturer specifications for monitoring equipment
Writing	<ul style="list-style-type: none"> Complete workplace forms legibly and accurately using correct technical terminology
Numeracy	<ul style="list-style-type: none"> Measure and calculate mass and volume Set and adjust measurement scale to calibrate equipment Interpret settings and results on monitoring machines and test kits
Oral communication	<ul style="list-style-type: none"> Explain monitoring schedules and responsibilities to staff using language appropriate for audience
Navigate the world of work	<ul style="list-style-type: none"> Take responsibility for adherence to workplace and safety requirements relating to area of responsibility and own role
Interact with others	<ul style="list-style-type: none"> Understand what to communicate, with whom and how, in routine work situations
Get the work done	<ul style="list-style-type: none"> Sequence and allocate water quality and environmental monitoring activities for self and others Use key features and functions of workplace systems and technology to record monitoring data and observations

Unit Mapping Information			
Code and title current version	Code and title previous version	Comments	Equivalence status
SFIAQU308 Maintain water quality and environmental monitoring	SFIAQUA308C Maintain water quality and environmental monitoring	Updated to meet Standards for Training Packages. Minor amendments to elements and performance criteria to better reflect outcomes.	Equivalent unit

Links	Companion Volumes, including Implementation Guides, are available at VETNet: https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=e31d8c6b-1608-4d77-9f71-9ee749456273
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TITLE	Assessment requirements for SFIAQU308 Maintain water quality and environmental monitoring
Performance Evidence	
<p>An individual demonstrating competency must satisfy all the elements, performance criteria and foundation skills of this unit. There must be evidence that the individual has monitored water quality and environmental monitoring activities on at least one occasion including:</p> <ul style="list-style-type: none"> • coordinating and briefing team members on water quality and environmental monitoring activities • preparing monitoring equipment • checking that samples for analysis have been collected, submitted and recorded • recording data and reporting on monitoring activities • overseeing cleaning work area and equipment • monitoring that health and safety and environmental requirements are met. 	
Knowledge Evidence	
<p>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:</p> <ul style="list-style-type: none"> • 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, calibration and maintenance of monitoring equipment • relevant legislation relating to maintaining water quality and environmental parameters for aquatic stock. 	
Assessment Conditions	
<p>Assessment of this unit of competency must take place under the following conditions:</p> <ul style="list-style-type: none"> • physical conditions: <ul style="list-style-type: none"> • skills must be demonstrated in an aquaculture workplace or an environment that accurately represents workplace conditions • resources, equipment and materials: <ul style="list-style-type: none"> • monitoring equipment • water quality sampling tests • personal protective equipment • culture or holding structure and medium • recording or reporting forms • specifications: <ul style="list-style-type: none"> • workplace procedures for monitoring water quality and environmental factors that includes advice on health and safety and environmental requirements • relationships <ul style="list-style-type: none"> • interactions with team members. <p>Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.</p>	
Links	Companion Volumes, including Implementation Guides, are available at VETNet: https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=e31d8c6b-1608-4d77-9f71-9ee749456273