

**Modification history**

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

SFIAQU213	Monitor environmental conditions
<b>Application</b>	<p>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.</p> <p>The unit applies to individuals who carry out basic monitoring activities in an aquaculture setting under the direction of a supervisor.</p> <p>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. Licences may be required if operating vehicles or vessels.</p> <p>No occupational licensing, legislative or certification requirements apply to the unit at this time of publication.</p>
<b>Prerequisite Unit</b>	Nil
<b>Unit Sector</b>	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. 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 1.3 Make basic repairs to sub-standard equipment and calibrate equipment as required 1.4 Move equipment and data or record sheets to monitoring site
2. Carry out monitoring	2.1 Perform water quality tests according to monitoring schedule 2.2 Observe environmental conditions against acceptable range 2.3 Collect and prepare samples of stock or water as instructed by supervisor, for on or off site analysis
3. Complete monitoring activities	3.1 Clean work area and dispose of waste materials safely according to health and safety and environmental requirements and 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

<b>Foundation Skills</b>	
<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>	
<b>Skill</b>	<b>Description</b>
Reading	<ul style="list-style-type: none"> <li>Interpret text in workplace procedures, monitoring schedule and instructions</li> </ul>
Writing	<ul style="list-style-type: none"> <li>Fill out workplace records legibly and accurately</li> </ul>
Numeracy	<ul style="list-style-type: none"> <li>Complete basic calculations for measuring water quality and dilutions</li> <li>Interpret numbers and symbols on testing equipment and meters</li> <li>Set and adjust measurement scale to calibrate equipment</li> </ul>
Oral communication	<ul style="list-style-type: none"> <li>Ask questions to clarify job requirements</li> <li>Describe abnormal records to supervisor using correct terminology</li> </ul>
Get the work done	<ul style="list-style-type: none"> <li>Use functions and features of digital and automated monitoring, testing and recording equipment</li> </ul>

<b>Unit Mapping Information</b>			
<b>Code and title current version</b>	<b>Code and title previous version</b>	<b>Comments</b>	<b>Equivalence status</b>
SFIAQU213 Monitor environmental conditions	SFIAQUA213C Monitor stock and environmental conditions	Updated to meet Standards for Training Packages. Revised unit title. Content relating to monitoring stock condition has been removed and is contained in SFIAQU212.	No equivalent unit

<b>Links</b>	Companion Volumes, including Implementation Guides, are available at VETNet: <a href="https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=e31d8c6b-1608-4d77-9f71-9ee749456273">https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=e31d8c6b-1608-4d77-9f71-9ee749456273</a>
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<b>TITLE</b>	<b>Assessment requirements for SFIAQU213 Monitor environmental conditions</b>
<b>Performance Evidence</b>	
<p>An individual demonstrating competency must satisfy all the elements and performance criteria of this unit. There must be evidence that the individual has monitored water quality and environmental conditions on at least one occasion including:</p> <ul style="list-style-type: none"> <li>• communicating with and reporting to supervisor on monitoring activities</li> <li>• using required personal protective equipment</li> <li>• performing water quality and environmental conditions tests</li> <li>• operating, maintaining and calibrating basic monitoring equipment</li> <li>• recording monitoring information and observations</li> <li>• cleaning work area and equipment and storing tools and equipment</li> <li>• following health and safety and environmental requirements.</li> </ul>	
<b>Knowledge Evidence</b>	
<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"> <li>• workplace sampling and monitoring procedures for monitoring environmental conditions</li> <li>• calibration and operation of monitoring equipment</li> <li>• maintenance and basic repairs of monitoring equipment</li> <li>• use and purpose of basic sampling equipment</li> <li>• parameters to be monitored and acceptable workplace ranges environmental conditions to be monitored</li> <li>• basic water quality factors and their impact on stock health</li> <li>• effects of environmental parameters and weather conditions on stock</li> <li>• safe work practices and environmental requirements relevant to monitoring environmental conditions</li> <li>• relevant legislation relating to monitoring water quality and environmental conditions for stock.</li> </ul>	
<b>Assessment Conditions</b>	
<p>Assessment of this unit of competency must take place under the following conditions:</p> <ul style="list-style-type: none"> <li>• physical conditions: <ul style="list-style-type: none"> <li>• skills must be demonstrated in an aquaculture workplace or an environment that accurately represents workplace conditions</li> </ul> </li> <li>• resources, equipment and materials: <ul style="list-style-type: none"> <li>• monitoring schedule</li> <li>• monitoring and sampling equipment for culture or holding stock and water</li> <li>• personal protective equipment</li> <li>• stock exhibiting a range of quality parameters in culture or holding structures</li> <li>• data or recording sheets</li> </ul> </li> <li>• specifications: <ul style="list-style-type: none"> <li>• workplace procedures for monitoring environmental conditions, including advice on safe work practices and environmental requirements</li> </ul> </li> <li>• relationships: <ul style="list-style-type: none"> <li>• interactions with supervisor.</li> </ul> </li> </ul> <p>Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.</p>	
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