

**Modification history**

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

<b>SFIAQU211</b>	<b>Undertake routine maintenance of water supply and disposal systems and structures</b>
<b>Application</b>	<p>This unit of competency describes the skills and knowledge required to carry out routine maintenance and minor repairs on a water supply and disposal system or structures and its various components. It includes safely shutting down and restarting water supply and disposal system equipment and infrastructure, and replacing or repairing worn or damaged parts, with minimal stress or damage to stock.</p> <p>The unit applies to individuals who carry out maintenance work in an aquaculture facility under the direction and guidance 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.</p> <p>No occupational licensing, legislative or certification requirements apply to the unit at the 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 work	1.1 Receive instructions or maintenance schedule from supervisor and confirm understanding 1.2 Collect and check required tools and equipment, including personal protective equipment, for serviceability and take to site 1.3 Review and prioritise tasks at the work site against instructions, and clarify with the supervisor as required
2. Undertake maintenance and repairs	2.1 Shut down or control water supply or disposal system or structure as instructed, and enable an alternative supply or disposal system before beginning maintenance and repairs 2.2 Service mechanical equipment under supervision, according to manufacturer guidelines and health and safety requirements 2.3 Replace or repair worn or damaged parts as instructed by supervisor
3. Follow up maintenance and repair activities	3.1 Return water supply or disposal system or structure to working order 3.2 Measure and record flow rates according to workplace procedures 3.3 Visually inspect water supply and disposal system or structure for non-standard operation and report observations
4. Finalise and review maintenance and repair activities	4.1 Clean work area and dispose of waste materials safely according to health and safety and environmental requirements and workplace procedures 4.2 Check and store tools and equipment, reporting any identified repair requirements to supervisor 4.3 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 workplace procedures and manufacturer guidelines or service manuals</li> </ul>
Writing	<ul style="list-style-type: none"> <li>Complete workplace records legibly and accurately</li> </ul>
Numeracy	<ul style="list-style-type: none"> <li>Interpret symbols and numbers in maintenance schedules, flow metres and gauges</li> <li>Measure length and depth</li> <li>Calculate volume and flow rate</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>
Navigate the world of work	<ul style="list-style-type: none"> <li>Recognise and follow organisational requirements, including safety requirements, associated with own role</li> </ul>
Interact with others	<ul style="list-style-type: none"> <li>Follow accepted practices and protocols for reporting issues or seeking guidance from supervisors</li> </ul>
Get the work done	<ul style="list-style-type: none"> <li>Make routine decisions about condition of equipment and structures and water quality</li> <li>Follow routine procedures using digital technology and automated equipment, pumps and tools</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>
SFIAQU211 Undertake routine maintenance of water supply and disposal systems and structures	SFIAQUA211C Undertake routine maintenance of water supply and disposal systems and structures	Updated to meet Standards for Training Packages	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>
--------------	---

<b>TITLE</b>	<b>Assessment requirements for SFIAQU211 Undertake routine maintenance of water supply and disposal systems and structures</b>
--------------	--

**Performance Evidence**

An individual demonstrating competency must satisfy all the elements and performance criteria of this unit. There must be evidence that the individual has undertaken maintenance of water supply and disposal systems and structures on at least one occasion including:

- communicating with and reporting to supervisor on routine maintenance and repair tasks
- using required personal protective equipment
- safely shutting down and restarting water supply and disposal systems or structures with minimal stress or damage to stock
- applying correct repair and maintenance techniques to water supply and disposal systems or structures
- using hand and power tools safely for maintenance and repair tasks
- observing water supply and disposal system or structure for non-standard operation
- recording data and observations
- cleaning up work area and equipment and storing tools and equipment
- following health and safety and environmental requirements.

**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:

- basic design principles and components of water supply and disposal systems or structures
- consequences of disabled water supply and disposal systems or structures on water quality and stock
- workplace procedures for undertaking maintenance and repairs and reporting non-standard operations
- general maintenance requirements for water supply and disposal systems or structures and their components
- general operating principles of specific types of pumps and treatment structures
- operation and maintenance of automatic or mechanised equipment
- work health and safety requirements relevant to maintaining water supply and disposal systems or structures
- relevant legislation relating to undertaking routine maintenance on water supply and disposal systems or structures.

**Assessment Conditions**

Assessment of this unit of competency must take place under the following conditions:

- physical conditions:
  - skills must be demonstrated in an aquaculture workplace setting or an environment that accurately represents workplace conditions
- resources, equipment and materials:
  - hand and power tools and parts relevant to the water supply and disposal system or structure
  - water supply and disposal system or structure
  - data or recording sheets
- specifications:
  - manufacturer guidelines or manual for operating and servicing equipment
  - maintenance schedule or specific instructions for maintaining water supply and disposal systems or structures
  - workplace procedures for maintaining water supply and disposal systems or structures, including advice on safety work practices
- relationships:
  - interactions with supervisor.

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

<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>
--------------	---