



Australian Government

SFIAQU412 Operate aquabotic technology

Release: 1

SFIAQU412 Operate aquabotic technology

Modification History

Release	Comments
Release 1	This version released with SFI Seafood Industry Training Package Version 2.0.

Application

This unit of competency describes the skills and knowledge required to operate aquabotic technology.

The unit applies to individuals who operate aquabotic technology for aquatic processes.

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.

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 to operate aquabotic technology	1.1 Determine activity to be undertaken and identify potential hazards and risks, workplace health and safety standards and aquaculture legislation that may apply 1.2 Identify the operational features of the aquabotic technology and its use in aquatic processes 1.3 Conduct aquabotic technology routine pre-operational checks

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. Operate aquabotic technology	2.1 Conduct start-up procedures according to workplace practices 2.2 Operate aquabotic technology using appropriate operational features to meet aquatic operational processes according to manufacturer specifications and workplace health and safety standards 2.3 Maintain aquabotic technology position within the range and level of exposure to prevailing and anticipated environmental conditions 2.4 Monitor aquabotic technology for performance with regard to activity requirements and environmental conditions 2.5 Identify environmental and biosecurity implications associated with use of aquabotic technology, and undertake processes to minimise impact 2.6 Monitor hazards and risks continually and ensure safe use of technology
3. Complete use of aquabotic technology	3.1 Complete the use of aquabotic technology and conduct shutdown procedures 3.2 Perform routine operational servicing and minor maintenance of technology according to manufacturer specifications 3.3 Clean and store aquabotic technology in line with workplace procedures 3.4 Identify and report faults, irregular performance or damage according to workplace procedures 3.5 Document findings following the use of aquabotic technology

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	Identify and interpret relevant manufacturer specifications
Writing	Record aquabotic technology performance with appropriate technical detail

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
SFIAQU412 Operate aquabotic technology	Not applicable	Unit has been created to address an emerging skill required by industry	Newly created

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 SFIAQU412 Operate aquabotic technology

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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 operated aquabotic technology in aquatic processes on at least two occasions.

In doing the above, there must also be evidence that the individual has:

- identified operational features and hazards while using aquabotic technology
- monitored the use of aquabotic technology
- performed fault finding
- complied with manufacturer specifications, workplace health and safety standards and workplace policies.

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:

- aquatic operational processes:
 - underwater survey missions
 - environmental and compliance monitoring
 - stock locations
 - observational studies
 - offshore structure cleaning
 - vessel hull inspection
 - net inspection and repair
 - net cleaning
- the general features and capabilities of aquabotic technology, including:
 - video cameras
 - robotic arms

- high-torque motors
- live remote control and data sharing
- configurable sensor suite to measure depth, temperature, orientation and global positioning system (GPS)
- battery life
- lighting
- computer systems
- position fixing
- relevant manufacturer specifications
- aquatic workplace health and safety standards
- aquabotic technology environmental and biosecurity impacts
- state, territory and national legislation and regulations relevant to aquaculture.

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 aquatic setting or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - access to aquabotic technology
- specifications:
 - access to relevant manufacturer specifications.

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

Links

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