



Australian Government

SFIAQU413 Maintain aquabotic technology

Release: 1

SFIAQU413 Maintain 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 maintain new aquabotic technology.

The unit applies to individuals who are responsible for the maintenance of 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. Undertake routine checks of aquabotic technology	1.1 Inspect aquabotic technology prior to use and according to workplace maintenance schedules to ensure all aquabotic operational features are operating effectively 1.2 Conduct safety checks according to manufacturer specifications and safety requirements

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.3 Interpret and record results of routine aquabotic technology checks 1.4 Document the condition of aquabotic technology, incorporating features and capabilities according to workplace processes 1.5 Identify faults and irregularities and report to appropriate personnel
2. Attend to minor maintenance and repairs	2.1 Diagnose maintenance and repair requirements following aquabotic technology inspection 2.2 Select tools and resources required to complete the maintenance requirements according to manufacturer specifications 2.3 Conduct the maintenance and repair work following manufacturer specifications, workplace health and safety standards and workplace policies 2.4 Determine who to report faults to outside scope of own expertise
3. Document maintenance and report activity	3.1 Record maintenance and repair activities in the required workplace format 3.2 Notify appropriate personnel about faults rectified and/or relevant details about the performance 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
Oral communication	Report on maintenance activity with appropriate technical detail to relevant personnel

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
SFIAQU413 Maintain 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 SFIAQU413 Maintain 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 conducted maintenance or repairs of aquabotic technology on at least two occasions.

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

- identified hazards
- diagnosed technical issues
- followed manufacturer specifications, workplace health and safety standards and workplace policies
- ensured aquabotic technology features operate effectively.

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:

- equipment and vehicles associated with aquabotic technology:
 - autonomous underwater vehicle (AUV)
 - remotely operated vehicle (ROV)
 - new and emerging aquabotic technology
- the operational 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
- relevant manufacturer specifications
- aquatic workplace health and safety standards
- fault/irregularity and maintenance reporting processes
- resources required for the maintenance of aquabotic technology:
 - tools
 - cleaning material
 - spare parts
 - cables.

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:
 - aquabotic technology
- specifications:
 - 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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