



Australian Government

SFIAQU415 Operate ROVs

Release: 1

SFIAQU415 Operate ROVs

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 underwater remotely operated vehicle (ROV) technology.

The unit applies to individuals who operate underwater aquatic ROV technology 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. Plan the use of an ROV	1.1 Determine the dive task, the suitability and the conditions of the dive site and whether the conditions are suitable for the use of an ROV 1.2 Assess personnel skill level requirements and whether the personnel available are sufficiently trained for vessel management, piloting, tether handling, vehicle maintenance, recording data or controlling an inspection 1.3 Consider the general features and capabilities of the designated

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	ROV for the task requirement and conditions
2. Prepare to operate ROV technology	2.1 Determine activity to be undertaken and the available launch method 2.2 Identify potential hazards and risks and workplace health and safety standards 2.3 Identify the operational features of the ROV technology and its use in aquatic operations 2.4 Conduct ROV technology routine pre-operational checks 2.5 Determine how the site conditions will affect the dive task
3. Use ROV technology	3.1 Conduct pre-check and start-up procedures according to workplace practices 3.2 Operate ROV technology to meet activity requirements according to manufacturer specifications and aquatic health and safety standards 3.3 Maintain ROV technology position within the range and level of exposure to prevailing and anticipated environmental conditions 3.4 Manage the tether effectively according to environmental conditions 3.5 Monitor ROV technology for performance with regard to activity requirements and conditions 3.6 Identify environmental and biosecurity implications associated with use of ROV technology, and undertake processes to minimise impact 3.7 Continually monitor hazards and risks and ensure safe use of technology
4. Complete use of ROV technology	4.1 Establish return and communicate intentions with the tether handler and/or vessel coxswain 4.2 Locate the tether and follow it to the return position while taking the tether in and ensuring to take out the tether turns 4.3 Surface and power down, disarming after the vehicle is secure, and recover to deck or shore 4.4 Rinse with freshwater and carry out post-dive checks and maintenance according to manufacturer specifications 4.5 Store ROV technology in line with workplace procedures 4.6 Identify and report faults, irregular performance or damage

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<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	according to workplace procedures 4.7 Document findings following the use of ROV 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 ROV technology performance with appropriate technical detail
Oral communication	Communicate effectively and directly using appropriate technological terminology

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
SFIAQU415 Operate ROVs	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 SFIAQU415 Operate ROVs

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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 remotely operated vehicle (ROV) technology in aquatic processes on at least four occasions.

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

- identified hazards and controlled risks
- monitored the use of ROV technology
- observed manufacturer specifications, workplace health and safety standards and biosecurity implications.

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:

- suitability of the shore or vessel launch method
- ROV suitability for task and conditions
- ROV dive processes
- tether management
- the general features and capabilities of ROV technology and auxiliary equipment
- ROV care and maintenance processes
- operation of position fixing equipment and methods
- relevant manufacturer specifications
- aquatic health and safety standards
- environmental and biosecurity impacts of ROVs
- risk and hazards associated with the use of ROV technology
- aquatic operational processes, including:
 - visual indication of stock concentration
 - underwater survey missions
 - observational studies

- offshore structure cleaning
- vessel hull inspection
- net inspection and repair
- net cleaning
- personnel skill level requirements.

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
- resources, equipment and materials:
 - ROV 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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