Modification history

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

| SFIAQU4X4 | Operate ROVs  |
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| Application | This unit of competency describes the skills and knowledge required to operate underwater ROV technology. The unit applies to individuals who operate underwater aquatic ROV technology processes.No licensing, legislative or certification requirements apply to this unit at the time of publication.  |
| Use Prerequisite Unit | Nil  |
| Unit Sector | Aquaculture  |

| Elements | Performance Criteria |
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| Elements describe the essential outcomes. | Performance criteria describe the performance needed to demonstrate achievement of the element. |
| 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 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 work health and safety (WHS) 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 in accordance with workplace practices 3.2 Operate ROV technology to meet activity requirements in accordance with manufacturer specifications and aquatic WHS standards3.3 Maintain ROV technology position within the range and level of exposure to prevailing and anticipated environmental conditions3.4 Manage the tether effectively according to environmental conditions3.5 Monitor ROV technology for performance with regard to activity requirements and conditions3.6 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 vessel coxswain4.2 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 shore4.4 Rinse with freshwater and carryout post-dive checks and maintenancein accordance with manufacturer specifications 4.5 Store ROV technology in line with workplace procedures4.6 Identify and report faults irregular performance or damage in accordance with workplace procedures4.7 Document findings following the use of ROV technology  |

| Foundation SkillsThis 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. |
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| Skill | Description |
| Reading  | * Identify and interpret relevant manufacturer specifications
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| Writing  | * Record ROV technology performance with appropriate technical detail
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| Unit Mapping Information |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| SFIAQU4X4 Operate ROVs  | N/A |  | New unit |

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| Links | Companion Volumes, including Implementation Guides, are available at VETNet: <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=e31d8c6b-1608-4d77-9f71-9ee749456273> |

| TITLE | Assessment requirements for SFIAQU4X4 Operate ROVs  |
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| Performance Evidence |
| An individual demonstrating competency must satisfy all of the elements, performance criteria and foundation skills in this unit. There must be evidence that the individual has operated ROV technology in aquatic processes on at least four occasions. In doing the above, evidence must also include:* identifying hazards
* monitoring the use of ROV technology
* fault finding/trouble shooting
* observing manufacturer specifications, WHS standards and biosecurity implications
* using ROV technology features, including:
* video cameras
* lights
* manipulator.
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| Knowledge Evidence |
| An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements, performance criteria and foundation skills 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 WHS 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.
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| Assessment Conditions |
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| Assessment of skills must take place under the following conditions: * physical conditions:
* skills must be demonstrated in an aquatic setting resources, equipment and materials:
* access to ROV 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. |

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