Modification history

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

| SFIAQU4X1 | Operate aquabotic technology |
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| Application | This unit of competency describes the skills and knowledge required to operate aquabotic technology.  The unit applies to individuals who operate aquabotic technology such as for fisheries or aquaculture 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. Prepare to operate aquabotic technology | 1.1 Determine activity to be undertaken and identify potential hazards and risks and work health and safety (WHS) standards  1.2 Identify the operational features of the aquabotic technology and its use in fisheries or aquaculture  1.3 Conduct aquabotic technology routine pre-operational checks |
| 2. Operate aquabotic technology | 2.1 Conduct start-up procedures in accordance with workplace practices  2.2 Operate aquabotic technology to meet activity requirements in accordance with manufacturer specifications and WHS 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 conditions  2.5 Identify environmental and biosecurity implications associated with use of aquabotic technology and undertake processes to minimise impact  2.6 Continually monitor hazards and risks and ensure safe use of technology |
| 3. Complete use of aquabotic technology | 3.1 Complete the use of aquabotic technology and conduct shut down procedures  3.2 Perform routine operational servicing and minor maintenance of technology in accordance with manufacturer specifications  3.3 Clean and store aquabotic technology in line with workplace procedures  3.4 Identify and report faults irregular performance or damage in accordance with 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. | |
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| Skill | Description |
| Reading | * Identifies and interprets relevant manufacturer specifications |
| Writing | * Records aquabotic technology performance with appropriate technical detail |
| Navigate the world of work | * Interprets and follows workplace requirements, and seeks clarification or other assistance when required |
| Get the work done | * Plans and organises own work activities and resources * Combines workplace goals with the use of technology |

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| Unit Mapping Information | | | |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| SFIAQU4X1 Operate aquabotic technology | N/A |  | New unit |

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

| TITLE | Assessment requirements for SFIAQU4X1 Operated aquabotic technology |
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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 aquabotic technology in fisheries or aquaculture on at least two occasions.  In doing the above, evidence must also include:   * identifying hazards * monitoring the use of aquabotic technology * fault finding/trouble shooting * observing manufacturer specifications, WHS standards and workplace policies * using aquabotic technology features, including: * video cameras * lights * sonar systems | |

| Knowledge Evidence |
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| 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:   * operational processes in fisheries or aquaculture: * underwater survey missions * environmental and compliance monitoring * marine growth survey * stock location * observational studies * zooplankton patches inspection * scour and debris survey * seabed survey * offshore structure cleaning * vessel hull inspections * net inspection and repair * net cleaning * position fixing; operation, equipment and methods * the general features and capabilities of aquabotic technology, including: * video cameras * sonar systems * articulating robotic arms * high-torque motors * live remote control and data sharing * configurable sensor suite to measure depth, temperature, orientation and GPS * battery life * lighting * computer systems * relevant manufacturer specifications * fishery or aquaculture WHS standards * aquabotic technology environmental and biosecurity impacts * stock location processes * aquaculture risk and hazards associated with the use of aquabotic technology * visual indication of stock concentration * state, territory and national legislation and regulations relevant to aquaculture. |

| Assessment Conditions |
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| Assessment of skills must take place under the following conditions:   * physical conditions: * skills must be demonstrated in a fisheries or aquaculture 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. |

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