Modification history

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

| SFIAQU4X2 | Maintain aquabotic technology |
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| Application | This unit of competency describes the skills and knowledge required to maintain aquabotic technology.  The unit applies to individuals who are responsible for the maintenance of aquabotic technology for aquatic processes. It also includes the maintenance of new and emerging aquabotic technology.  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 |
| --- | --- |
| Elements describe the essential outcomes. | Performance criteria describe the performance needed to demonstrate achievement of the element. |
| 1. Undertake routine checks of aquabotic technology | 1.1 Inspect aquabotic technology prior to use and in accordance with workplace maintenance schedules to ensure all aquabotic operational features are operating effectively  1.2 Conduct safety checks according to manufacturer specifications and safety requirements  1.3 Interpret and record results of routine aquabotic technology checks  1.4 Document the condition of aquabotic technology, incorporating features and capabilities in accordance with 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 in accordance with manufacturer specifications  2.3 Conduct the maintenance and repair work following manufacturer specifications, work health and safety (WHS) standards and workplace policies  2.4 Report faults outside scope of own expertise to appropriate personnel |
| 3. Document maintenance and report activity | 3.1 Record maintenance and repair activities in the required workplace format  3.2 Notify appropriate personnel of faults rectified |

| 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 | * 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 |

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| Unit Mapping Information | | | |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| SFIAQU4X2 Maintain 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 SFIAQU4X2 Maintain 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 conducted maintenance or repairs of aquabotic technology on at least two occasions.  In doing the above, evidence must also include:   * observing and identifying hazards * diagnosing technical issues * observing manufacturer specifications, WHS standards and workplace policies * fault finding and/or reporting on faults * ensure aquabotic technology features operate effectively | |

| 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:   * 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 * 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 * aquatic WHS standards * fault/ irregularity and maintenance reporting processes * maintenance recording processes * resources required for the maintenance of aquabotic technology: * tools * cleaning material * spare parts * cables |

| 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 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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