Modification history

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

| SFIAQU3X1 | Operate hi-tech and real time aquatic technology |
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| Application | This unit of competency describes the skills and knowledge required to operate high tech and real time aquatic technology.  The unit applies to individuals who use aquatic technology. It includes using and concluding activity and providing feedback on the performance of high-tech and real time aquatic 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. Identify technology requirements | 1.1 Determine workplace requirements and determine how hi-tech or real time technology may be utilised to complete aquatic tasks  1.2 Identify relevant hazards regarding work safety and/or environmental impacts  1.3 Discuss processes to mitigate risks of any identified hazards with relevant personnel  1.4 Discuss current and future training needs in relation to aquatic operational processes, and control room, real time systems, marine sites, and probe technology |
| 2. Perform remote or real time aquatic activity using technology | 2.1 Conduct activity in real time systems in accordance with workplace procedures  2.2 Use probe technology in a manner that complies with workplace procedures and manufacturer specifications  2.3 Observe and record the performance of technology and the environmental impacts on animals |
| 3. Finalise and review use of technology | 3.1 Conclude activity and conduct technology shut down procedures when required as per workplace requirements  3.2 Record relevant data and observations on how current or emerging technology may be utilised to complete aquatic tasks  3.3 Report any performance abnormalities to relevant personnel |

| 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 | * Document technology performance |
| Oral communication | * Use appropriate technical terminology to communicate technological requirements |

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| Unit Mapping Information | | | |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| SFIAQU3X1 Operate hi-tech and real time aquatic technology | N/A |  | 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 SFIAQU3X1 Operate hi-tech and real time aquatic technology |
| --- | --- |
| 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 used two types of aquatic technology, each on at least one occasion.  In doing the above, evidence must also include:   * accessing: * probe technology * real time systems * updating personal skills to operate emerging technology * observing manufacturer specifications and WHS standards * conducting technology shut down procedures. | |

| 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:   * overview of the aquatic operational processes: * transport of stock and equipment * water quality technology * real time systems * probe sensor or camera maintenance * the general features and capabilities of aquatic technology * overview or technological/digital advancements: * filtration technology * recirculating aquaculture systems (RAS) * Internet of Things (IoT) * smart platforms * relevant manufacturer specifications * environmental impacts of technology * aquatic WHS standards. |

| 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 high tech and real time aquatic 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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