Modification history

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

| SFIAQU4X3 | Prepare for the use of new or emerging aquatic technology  |
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| Application | This unit of competency describes the skills and knowledge required to prepare for the use of new or aquatic emerging technology. The unit applies to individuals who are responsible for the application and use of new or emerging technology for aquatic work processes. It includes preparing for the use of new or upgraded equipment.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. Present new or emerging technology  | 1.1 Access the workplace records of new or emerging aquatic technology test results 1.2 Review how the operational features of the proposed new or emerging technology can be used to improve workplace aquatic operational processes 1.3 Present test results, appropriate manufacturer specifications and work health and safety (WHS) standards to relevant personnel and operators1.4 Outline equipment upgrading requirements when the new or emerging technology is introduced 1.5 Consider risks and hazards, including environmental impacts and outline trouble-shooting processes to mitigate risk factors  |
| 2. Discuss the use of new or emerging technology  | 2.1 Discuss considerations, processes and implementation timelines of new or emerging technology with appropriate personnel, in accordance with workplace procedures 2.2 Determine the need for operator training of new or emerging aquatic technology2.3 Promote the use of new or emerging aquatic technology to relevant personnel  |
| 3. Evaluate the uses of new or emerging technology  | 3.1 Determine how new or emerging aquatic technology will be used to support workplace goals and WHS standards3.2 Document new technology uses in accordance with workplace procedures |

| 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 test results with appropriate technical detail
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| 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 |
| SFIAQU4X3 Prepare for the use of new or emerging aquatic 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 SFIAQU4X3 Prepare for the use of new or emerging aquatic 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 prepared for the use of new or emerging aquatic technology on at least two occasions. In doing the above, evidence must also include:* observing manufacturer specifications, WHS standards and workplace requirements
* fault finding/trouble shooting
* consulting effectively with relevant personnel.
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| 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:* aquatic operational processes:
* fish farms
* hatchery
* transport of stock and equipment
* service of equipment
* environmental compliance
* probe maintenance
* new or emerging aquatic technology including:
* feed technology
* high-energy sites
* real time systems
* digital devices
* Internet of Things (IoT)
* smart platforms
* environmental impacts of new or emerging aquatic technology
* relevant manufacturer specifications
* aquatic WHS standards
* consultation and promotional methods.
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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 processes setting or an environment that accurately represents workplace conditions
* resources, equipment and materials:
* access to new or emerging aquatic technology
* specifications:
* access to relevant manufacturer specifications
* relationships:
* evidence of interactions with relevant personnel.

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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