



Australian Government

SFIAQU414 Investigate the use of new or emerging aquatic technology

Release: 1

SFIAQU414 Investigate the use of new or emerging aquatic technology

Modification History

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

Application

This unit of competency describes the skills and knowledge required to investigate the use of new or emerging aquatic technology or equipment that has been tested.

The unit applies to individuals who are responsible for the application and use of new or emerging technology for aquatic work processes.

All work must be carried out to comply with workplace procedures, according to state/territory health and safety, food safety, biosecurity and environmental regulations, legislation and standards that apply to the workplace.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Unit Sector

Aquaculture (AQU)

Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
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

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	operational processes 1.3 Present test results, appropriate manufacturer specifications and workplace health and safety standards to relevant personnel and operators 1.4 Outline equipment upgrading requirements when the new technology is introduced 1.5 Consider risks and hazards, including environmental considerations, and outline troubleshooting 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 to determine benefits and limitations relating to workplace operations and procedures, 2.2 Determine the need for operator training of new or emerging aquatic technology 2.3 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 workplace health and safety standards 3.2 Document new technology uses according to workplace procedures

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.

Skill	Description
Reading	Identify and interpret relevant manufacturer specifications
Writing	Record test results with appropriate technical detail
Oral communication	Use appropriate technical terminology to communicate technological requirements

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
SFIAQU414 Prepare for the use of new or emerging aquatic technology	Not applicable	Unit has been created to address an emerging skill required by industry	Newly created

Links

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

Assessment Requirements for SFIAQU414 Investigate the use of new or emerging aquatic technology

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Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria 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, there must also be evidence that the individual has:

- complied with manufacturer specifications, workplace health and safety standards and workplace requirements
- determined benefits and limitations of new or emerging aquatic technology
- consulted effectively with relevant personnel
- conducted trouble shooting to mitigate risk factors.

Knowledge Evidence

An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:

- developments in aquatic operational processes
- new or emerging aquatic technology, including:
 - feed technology
 - high-energy sites
 - real time systems
 - digital devices
 - smart systems
- risk control procedures relating to new or emerging aquatic technology
- troubleshooting processes
- operator training needs related to the introduction of new or emerging technology
- communication methods for the promotion of new or emerging technology
- environmental considerations of new or emerging aquatic technology

- relevant manufacturer specifications
- aquatic workplace health and safety (WHS) standards.

Assessment Conditions

Assessment of the skills in this unit of competency must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated in an aquatic processing setting or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - new or emerging aquatic technology
- specifications:
 - relevant manufacturer specifications
- relationships:
 - access to relevant personnel.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

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