



Australian Government

SFIAQU313 Operate hi-tech and real time aquatic technology

Release: 1

SFIAQU313 Operate hi-tech and real time 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 operate hi-tech and real time aquatic technology. It includes using and concluding activity and providing feedback on the performance of hi-tech and real time aquatic technology.

The unit applies to individuals who use aquatic technology.

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. Identify technology requirements	1.1 Identify 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

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	relevant personnel 1.4 Discuss current and future personal training needs in relation to aquatic operational processes, control room, real time systems, marine sites, and probe technology with relevant personnel
2. Perform remote or real time aquatic activity using technology	2.1 Conduct activity in real time systems according to workplace procedures 2.2 Use sensor technology in a manner that complies with workplace procedures and manufacturer specifications 2.3 Observe and record the performance of technology and the impact on environment and/or animals
3. Finalise and review use of technology	3.1 Conclude activity and conduct technology shut-down procedures according to 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.

Skill	Description
Reading	Identify and interpret relevant manufacturer specifications
Writing	Document technology performance
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
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Code and title current version	Code and title previous version	Comments	Equivalence status
SFIAQU313 Operate hi-tech and real time 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 SFIAQU313 Operate hi-tech and real time 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 used both sensor technology and real time systems on at least two occasions.

In doing the above, there must be evidence that the individual has:

- followed manufacturer specifications and workplace health and safety standards
- conducted technology shut-down procedures.

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:

- 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 of technological/digital advancements:
 - filtration technology
 - recirculating aquaculture systems (RAS)
 - smart systems
- relevant manufacturer specifications for operation of equipment/technology
- environmental impacts of technology
- aquatic workplace health and safety 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 setting or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - hi-tech and real time aquatic technology
- specifications:
 - relevant manufacturer specifications
 - relevant workplace health and safety documents.

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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