



Australian Government

Assessment Requirements for SFIAQU512 Plan and design water supply and disposal systems

Release: 1

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Modification History

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

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 developed and documented a plan to meet the hydraulic requirements for water supply and disposal systems of an aquaculture facility on at least one occasion, including:

- determined the water supply system design based on facility and legislative requirements
- defined the design requirements for the following systems:
 - pumping and power
 - distribution
 - drainage, storage and treatment
- established operational parameters and procedures for the aquaculture water supply and disposal systems
- developed a detailed budget based on resource requirements.

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:

- processes for designing aquaculture water supply and disposal systems
- basic bookkeeping for managing budgets
- diagnostic methods to check changes in environmental conditions
- key features and obligations within contracts or legal documentation
- key features of legislation relevant to water and disposal systems in an aquaculture setting
- benefits and limitations of options for:
 - automatic control and monitoring systems
 - drainage and storage development technology
 - mechanisation or automation of process or activity
- issues relating to waste management impacts on the environment

- current and emerging pump technology
- current and emerging treatment technology
- biosecurity in the context of water supply and disposal systems.

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 aquaculture workplace or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - technology for researching and documenting information
- specifications:
 - relevant workplace operational information and budget needed to plan and design water supply and disposal systems.

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

Links

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