



Australian Government

Assessment Requirements for SFIAQU511 Culture new aquaculture species

Release: 1

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Modification History

Release	Comments
Release 1	This version released with SFI Seafood Industry Training Package Version 1.0.

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 introduced a new aquatic species that has not been previously cultured in the workplace on at least one occasion, including:

- researching and documenting detailed requirements for the introduction of the new aquaculture species
- preparing and presenting a business case, including market evaluation, protocols and a budget for introducing the new species to stakeholders
- culturing the new species and reporting on the outcomes of the production and sales to determine future implementation.

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:

- key principles of breeding and rearing target species
- target species life history traits
- target species spawning and nutritional requirements
- characteristics of normal and abnormal stock behaviour and environmental conditions for target species
- principles of aquatic animal husbandry, including stock handling, feeding, health monitoring, water quality monitoring and culture vessel maintenance
- use of microscopy in monitoring water quality and environmental conditions
- types and features of advanced water quality tests and water sampling
- procedures for preparing and administering chemicals and/or biological agents.

Assessment Conditions

Assessment of skills 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:
 - broodstock for new species
 - holding structures for spawning or breeding activities
 - monitoring equipment and sampling kits
 - technology for researching and preparing and presenting information
- specifications:
 - workplace business plan and budget.

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>