

Outline New Zealand Greenshell mussel (kutai, kuku) farming

Level 2

Credits 10

Purpose People credited with this unit standard are able to: identify the Greenshell™ mussel; describe the structures and methods of Greenshell™ mussel farming in New Zealand; describe the location and history of Greenshell™ mussel farming in New Zealand; describe the Greenshell™ mussel farming industry structure and size in New Zealand; describe the consumer products and the consumer markets for the Greenshell™ mussel; and provide an overview of the principles stated in the environmental code of practice for the mussel industry.

Subfield Seafood

Domain Aquaculture

Status Registered

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Accreditation Evaluation of documentation by NZQA and industry.

Standard setting body (SSB) Primary Industry Training Organisation

Accreditation and Moderation Action Plan (AMAP) reference 0123

This AMAP can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Special notes

Definitions

In the title of this unit standard 'New Zealand Greenshell™ mussel' refers to Greenshell™ mussels (kutai, kuku);

company requirements refer to instructions to staff on policy and procedures that are communicated in verbal or written form. These requirements may include but are not limited to – manufacturers' procedures, company safety procedures, legislative requirements, industry codes of practice and standards;

types of rope include but are not limited to – standard rope, culture rope, spat catching rope, lashings;

environmental code of practice refers to the Greenshell™ Mussel Industry Environmental code of practice available from Aquaculture New Zealand, Level 1 Wakatu House, Montgomery Square, Nelson 7010 (<http://www.aquaculture.org.nz>).

Elements and performance criteria

Element 1

Identify the Greenshell™ mussel.

Performance criteria

- 1.1 The scientific name for the Greenshell™ mussel is stated.
- 1.2 Features of the Greenshell™ mussel that distinguish it from other common mussel species are identified.
- Range a minimum of three features.

Element 2

Describe the structures and methods of Greenshell™ mussel farming in New Zealand.

Performance criteria

- 2.1 The description outlines the physical structures of a Greenshell™ mussel farm in terms of design and layout of lines.
- 2.2 The description outlines the different types of rope and their uses on a Greenshell™ mussel farm.
- 2.3 The description outlines the location of spat, their origin, and current spat catching or collection techniques and transportation methods.
- Range evidence is required for three locations, three collection or catching techniques, and two spat transportation methods.
- 2.4 The description includes how spat/seed quality is maintained in terms of temperature, length of time out of water, handling methods, size of spat/seed, and source of spat/seed.
- 2.5 The description outlines how Greenshell™ mussels are seeded, harvested, and bagged on a mussel farm in accordance with company requirements.
- 2.6 The description outlines the factors that may impact on the farming of Greenshell™ mussels and the control measures available.
- Range includes but is not limited to – over-settlement, storm events, slippage.

Element 3

Describe the location and history of Greenshell™ mussel farming in New Zealand.

Performance criteria

3.1 The description identifies the regional areas where Greenshell™ mussel farms are located in New Zealand.

Range two main areas and two others.

3.2 The description outlines the farming methods used at the beginning of the Greenshell™ mussel industry in New Zealand.

3.3 The description outlines how methods of farming Greenshell™ mussels have changed to meet current farming practices.

Range includes but is not limited to – the impact of technologies.

3.4 The description outlines the establishment of the Greenshell™ mussel industry and identifies reasons for its success.

Range evidence is required for a minimum of three reasons for success.

Element 4

Describe the Greenshell™ mussel farming industry structure and size in New Zealand.

Performance criteria

4.1 The description outlines organisations in terms of their role in the mussel farming industry.

Range Aquaculture New Zealand, local Marine Farming Association, local water quality programme, District and Regional Councils, New Zealand Food Safety Authority, Ministry of Fisheries.

4.2 The description identifies the tonnage of annual Greenshell™ mussel production and the percentage for export.

4.3 The description identifies the export returns of the annual Greenshell™ mussel production.

Element 5

Describe the consumer products and the consumer markets for the Greenshell™ mussel.

Performance criteria

- 5.1 The description lists mussel products on the consumer market.
Range includes a minimum of three products.
- 5.2 The description identifies consumer markets for the Greenshell™ mussel.
Range includes a minimum of five consumer markets.

Element 6

Provide an overview of the principles stated in the environmental code of practice for the Greenshell™ mussel industry.

Performance criteria

- 6.1 The overview outlines how good farming practices will minimise the effect on the environment and other users.
Range includes but is not limited to – specified equipment and the checking of farms for secured anchoring and floats, appropriate waste removal, lighting.
- 6.2 The overview outlines the methods for dealing with vessel discharge.
Range disposal of lashings, domestic rubbish, synthetic material, wastewater, noise, fuel and oil spills.

Please note

Providers must be accredited by NZQA, or an inter-institutional body with delegated authority for quality assurance, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be accredited by NZQA before they can register credits from assessment against unit standards.

Accredited providers and Industry Training Organisations assessing against unit standards must engage with the moderation system that applies to those standards.

Accreditation requirements and an outline of the moderation system that applies to this standard are outlined in the Accreditation and Moderation Action Plan (AMAP). The AMAP also includes useful information about special requirements for organisations wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

Comments on this unit standard

Please contact the Primary Industry Training Organisation standards@primaryito.ac.nz if you wish to suggest changes to the content of this unit standard.