

Describe and carry out zooplankton culture for use in the New Zealand aquaculture industry

Level 3

Credits 10

Purpose People credited with this unit standard are able to: describe zooplankton, its life cycle, and environmental requirements and parameters, and how to culture and harvest it; and carry out the culture and harvest of zooplankton, for use in the New Zealand aquaculture industry.

Subfield Seafood

Domain Aquaculture

Status Registered

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Entry information Open.

Accreditation Evaluation of documentation and visit 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

Definition

Company requirements refer to instructions to staff on policy and procedures that are communicated in an oral or written form. These requirements must include legislation and safety requirements, and may include but are not limited to industry codes of practice and standards.

Elements and performance criteria

Element 1

Describe zooplankton cultured for use in the New Zealand aquaculture industry.

Performance criteria

- 1.1 The description includes the use of zooplankton.
- 1.2 The description includes the types and supply of zooplankton.
- Range types of zooplankton may include but are not limited to – rotifers, artemia, copepods, daphnia; evidence relating to two types is required.
- 1.3 The description relates the properties of each type of zooplankton selected above to meet the requirements of the species to which they are fed.
- Range size, digestibility, behaviour, nutritional value.

Element 2

Describe the life cycle, and environmental requirements and parameters of zooplankton cultured for use in the New Zealand aquaculture industry.

Range two types of zooplankton.

Performance criteria

- 2.1 The description includes the life cycle of the zooplankton.
- 2.2 The description includes the environmental requirements and parameters for optimum growth of the zooplankton.
- Range may include but is not limited to – light, pH, temperature, aeration, salinity, food.

Element 3

Describe the culturing and harvesting of zooplankton for use in the New Zealand aquaculture industry.

Range one type of zooplankton.

Performance criteria

- 3.1 The description includes the culturing practices used to maintain the zooplankton culture, in accordance with company requirements.
- Range culture growth, culture health.

- 3.2 The description includes the equipment used for the culturing of zooplankton, in accordance with company requirements.
- 3.3 The description includes the procedures for, and importance of, maintaining hygiene during the culture of zooplankton, in accordance with company requirements.
- 3.4 The description includes the method used to enhance nutritional quality within the zooplankton to meet the requirements of the species to which they are fed.
- 3.5 The description includes the method of concentrating and harvesting zooplankton in accordance with company requirements.

Element 4

Carry out the culture and harvest of zooplankton for use in the New Zealand aquaculture industry.

Range one type of zooplankton.

Performance criteria

- 4.1 The food for the culture of zooplankton is prepared in accordance with company requirements.
- 4.2 The zooplankton is cultured and monitored, and action taken, in accordance with company requirements.

Range includes but is not limited to – preparation of the culture vessel.
- 4.3 The zooplankton is harvested in accordance with company requirements.

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 at standards@primaryito.ac.nz if you wish to suggest changes to the content of this unit standard.