

Describe the feeding of farmed fin fish

Level 3

Credits 15

Purpose People credited with this unit standard are able to describe: the principles of feeding farmed fin fish; the factors affecting feeding, and the impacts of poor feeding practices; and feed types used for farming fin fish.

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, manufacturers' instructions, industry codes of practice and standards.

Elements and performance criteria

Element 1

Describe the principles of feeding farmed fin fish.

Performance criteria

- 1.1 The description includes an outline of satiation feeding and non-satiation feeding in accordance with company requirements.
- 1.2 The description includes an outline of the feeding practices in accordance with company requirements.
- 1.3 The description includes an outline of the feeding behaviour of a population of farmed fin fish throughout a meal, in relation to the rearing environment.
- Range fish's reaction to food.

Element 2

Describe the factors affecting feeding, and the impacts of poor feeding practices.

Performance criteria

- 2.1 The description includes examples and definitions of terminology used when feeding farmed fin fish.
- Range includes food conversion ratio and may include but is not limited to – biomass, inventory, stocking density, food delivery rate, food consumption rate, ration; evidence is required for five definitions.
- 2.2 The description includes an explanation of the effects of environmental factors, fish health and/or farm activities on feeding.
- Range may include but is not limited to – weather, predators, season factors, water quality, disease, stress; evidence is required for four factors associated with the environment, fish health and/or farm activities.
- 2.3 The description includes the significance of the feed particle size used for a population of farmed fin fish.
- 2.4 The description includes an outline of the effects of under-feeding and over-feeding a population of farmed fin fish.
- Range feed conversion ratio.
- 2.5 The description includes an outline of the impact of the feeding rate on a population of farmed fin fish.

Element 3

Describe feed types used for farming fin fish.

Performance criteria

- 3.1 The description includes an outline of the development of the types of food used in the farmed fin fish industry and the reasons for change.
- Range includes but is not limited – trash fish, moist food, pressed pellets, extruded pellets.
- 3.2 The description includes the main components of pellet food and their purpose.
- Range oil/fat, protein, starch, vitamins/minerals, pigment.
- 3.3 The description includes a source for each component of pellet food.
- Range fish oil, fishmeal, pigment, other oils and proteins.
- 3.4 The description includes an outline of factors that influence the cost of food.
- Range may include but is not limited to – availability of industrial fisheries, demand by other industries, exchange rate, quality of raw materials, transport.
evidence of four factors is required.

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.