

Explain the management of environmental best practice in the aquaculture industry

Level 4

Credits 15

Purpose People credited with this unit standard are able to: explain the general principles used in the aquaculture industry to minimise effect on the environment; explain the effect aquaculture industry activities may have on the environment and best practices used to minimise the effect of these activities; explain the development and implementation of practices in the workplace to minimise the effect on the environment used in the aquaculture industry; and supervise aquaculture industry activities in the workplace to minimise the effect on the environment.

Subfield Seafood

Domain Aquaculture

Status Registered

Status date 12 December 2008

Date version published 12 December 2008

Planned review date 31 December 2013

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

- 1 Definitions
Company requirements refer to instructions to staff on policy and procedures that are communicated in written or verbal form. These requirements may include but are not limited to – manufacturers' procedures, company safety procedures, codes of practice and standards, and legislative requirements.
Legislative requirements may include but are not limited to – Marine Mammals Protection Act 1978; Resource Management Act 1991; Freshwater Fish Farming Regulations 1983; Fisheries Act 1996.
- 2 All work practices must meet documented company safety requirements. The documented company safety requirements must meet the obligations of the Health and Safety in Employment Act 1992 and their subsequent amendments.

Elements and performance criteria

Element 1

Explain the general principles used in the aquaculture industry to minimise effect on the environment.

Performance criteria

- 1.1 The explanation includes the reason why the aquaculture industry is required to develop practices and methods for achieving long-term environmental sustainability.
- 1.2 The explanation includes a description of farming practices and management of discharge and waste that minimise the effect on the environment.
- 1.3 The explanation includes how management practices will minimise the effects on other users of the environment.
- 1.4 The explanation includes the practices that support research into the effects on the environment.

Range may include but is not limited to – monitoring, assessment, interpretation, recording, reporting; evidence is required for three.
- 1.5 The explanation includes the legislative requirements that apply to the activities carried out within the environment.

Range may include but is not limited to – Marine Mammals Protection Act 1978; Resource Management Act 1991; Freshwater Fish Farming Regulations 1983; Fisheries Act 1996.

Element 2

Explain the effect aquaculture industry activities may have on the environment and best practices used to minimise the effect of these activities.

Performance criteria

- 2.1 The explanation includes aquaculture industry activities and the effect of each on the environment.
- Range activities may include but are not limited to – establishment of farms, use of boats, spat catching activities, seeding, feeding, harvesting, vessel maintenance, farm maintenance, use of marinas, hatchery activities;
effects may include but are not limited to – ecological, physical, seabed, biological, chemical;
evidence is required for five activities.
- 2.2 The explanation includes aquaculture industry practices that minimise the effect on the environment for each of the selected activities.
- Range practices may include but are not limited to – farm and equipment design, maintenance schedules, noise, lighting, waste management, recycling, biosecurity, chemical and fuel use and storage, feed, energy use, contingency plans, cleaning.
- 2.3 The interactions of the aquaculture industry with other users of the environment are identified.
- Range evidence is required for three other users.

Element 3

Explain the development and implementation of practices in the workplace to minimise the effect on the environment used in the aquaculture industry.

Performance criteria

- 3.1 The explanation includes the development of practices used to minimise the effect on the environment.
- Range may include but is not limited to – monitoring, reporting, actions taken.
- 3.2 The explanation includes the implementation of practices used to minimise the effect on the environment, in accordance with company requirements.

Element 4

Supervise aquaculture industry activities in the workplace to minimise the effect on the environment.

Performance criteria

- 4.1 Monitoring sheets are used according to company requirements.
- 4.2 Supervision of workplace practices used to minimise the effect on the environment is carried out.
- 4.3 The actions to take in the event of an occurrence that causes adverse effect on the environment are explained.
- Range may include but is not limited to – retrieval of non-biodegradable materials, spills and leaks, re-positioning of anchors, reporting line breaks and spread of exotic organisms, training of staff.
- 4.4 The records to be completed and notification procedures if an environmental incident, accident or complaint occurs are explained 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 standards@primaryito.ac.nz if you wish to suggest changes to the content of this unit standard.