

Title	Describe and supervise the management of environmental best practice in the aquaculture industry		
Level	4	Credits	10

Purpose	People credited with this unit standard are able to: describe the general principles used in the aquaculture industry to minimise the effect on the environment; describe the effect aquaculture industry activities may have on the environment and best practices used to minimise the effect of these activities; describe 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.
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Classification	Seafood > Aquaculture
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Available grade	Achieved
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Guidance Information

- Legislation relevant to this unit standard includes but is not limited to:
 - Animal Products Act 1999;
 - Fisheries Act 1996;
 - Freshwater Fish Farming Regulations 1983;
 - Health and Safety at Work Act 2015;
 - Marine Mammals Protection Act 1978;
 - Resource Management Act 1991;
 - and any subsequent amendments.
- Definition
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. Company requirements must include legislative requirements.
- All evidence presented in this unit standard must be in accordance with company requirements.

Outcomes and performance criteria

Outcome 1

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

Performance criteria

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

<div style="margin-left: 40px;">Range may include but is not limited to – monitoring, assessment, interpretation, recording, reporting; evidence of three is required.</div> |
| 1.5 | Describe the legislative requirements that apply to the activities carried out within the environment.

<div style="margin-left: 40px;">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.</div> |

Outcome 2

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

Performance criteria

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| 2.1 | Describe the aquaculture industry activities and the effect of each on the environment.

<div style="margin-left: 40px;">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 of five activities is required.</div> |
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- 2.2 Describe the 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 Describe the interactions of the aquaculture industry with other users of the environment.

Range evidence of three other users is required.

Outcome 3

Describe 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 Describe 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 Describe the implementation of practices used to minimise the effect on the environment, in accordance with company requirements.

Outcome 4

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

Performance criteria

- 4.1 Use monitoring sheets according to company requirements.

- 4.2 Carry out supervision of workplace practices used to minimise the effect on the environment.

- 4.3 Describe the actions to take in the event of an occurrence that causes adverse effect on the environment.

Range may include but is not limited to – company best practices for retrieval of non-biodegradable materials, spills and leaks, re-positioning of anchors, reporting line breaks and spread of exotic organisms, training of staff; evidence of three actions is required.

- 4.4 Describe the records to be completed and notification procedures if an environmental incident, accident or complaint occurs in accordance with company requirements.

Planned review date	31 December 2028
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	25 February 2003	31 December 2024
Revision	2	27 October 2006	31 December 2024
Review	3	12 December 2008	31 December 2024
Review	4	28 October 2021	N/A
Rollover	5	29 February 2024	N/A

Consent and Moderation Requirements (CMR) reference	0123
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Comments on this unit standard

Please contact the Muka Tangata - People, Food and Fibre Workforce Development Council qualifications@mukatangata.nz if you wish to suggest changes to the content of this unit standard.