

Title	Describe protection of the marine environment during seafood vessel operations		
Level	3	Credits	5

Purpose	<p>This unit standard is for people working in a commercial seafood operation.</p> <p>People credited with this unit standard are able to describe; measures to prevent the pollution of the marine environment by seafood vessel waste; measures to prevent the pollution of the marine environment during refuelling of seafood vessels; and the hazards of free refrigerant gases to vessel personnel and the marine environment.</p>
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Classification	Seafood > Seafood Vessel Operations
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Available grade	Achieved
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Guidance Information

- 1 All evidence presented in this unit standard must be in accordance with:
 - Workplace procedures;
 - Fisheries Act 1996;
 - Health and Safety at Work Act 2015;
 - Maritime Transport Act 1994;
 - *New Zealand Marine Protection Rules can be found at:*
www.maritimenz.govt.nz/rules/;
 - Ozone Layer Protection Act 1996;
 - Resource Management Act 1991;
 - Wildlife Act 1953;
 - The MARPOL Convention (The International Convention for the Prevention of Pollution from Ships, 1973);
 - Regional Coastal Plans;
 - The International Convention for the Prevention of Pollution from Ships (MARPOL) can be found at:
[https://www.imo.org/en/about/Conventions/Pages/International-Convention-for-the-Prevention-of-Pollution-from-Ships-\(MARPOL\).aspx](https://www.imo.org/en/about/Conventions/Pages/International-Convention-for-the-Prevention-of-Pollution-from-Ships-(MARPOL).aspx)
and any subsequent amendments.

- 2 Definitions

Vessel/ refers to a vessel that is operating a Maritime Operator Safety System (MOSS) that is recognised by Maritime New Zealand and meets the requirements of the Maritime Transport Operator Certificate and/or Plan.

Workplace procedures refer to the policies and procedures set out in a verbal or written form by the employer or organisation. Procedures must be consistent with current legislative requirements and manufacturer's recommendations or instructions where relevant.

Outcomes and performance criteria

Outcome 1

Describe measures to prevent the pollution of the marine environment by seafood vessel waste.

Performance criteria

- 1.1 Describe the potential consequences of pollution from vessel waste entering the marine environment.
- Range vessel waste includes but is not limited to – garbage, solvents, cleansing agents, oil, fuel, sewage, contaminated water, plastics; evidence of least one consequence for each waste type is required.
- 1.2 Describe how each type of vessel waste is to be disposed.
- Range vessel waste includes but is not limited to – garbage, solvents, cleansing agents, oil, fuel, sewage, contaminated water, plastics; disposal may include but is not limited to – storage, land disposal, use of incinerators.
- 1.3 Describe the procedures for the recording and notification of incidents of vessel waste spillage entering waterways.
- 1.4 Describe the procedure for prevention and containment of vessel waste spillages.
- 1.5 Describe the requirements that apply to the vessel in relation to a garbage management plan, the type of solid waste included and the use of a garbage record book.

Outcome 2

Describe measures to prevent the pollution of the marine environment during refuelling of seafood vessels.

Performance criteria

- 2.1 Describe the personal safety equipment to be used and firefighting equipment that should be available during refuelling of the vessel.
- 2.2 Describe the system and equipment checks carried out prior to fuel transfer in order to ensure personnel and marine environment protection during refuelling.

- 2.3 Describe the checks for the equipment used for spill clean-up.
- 2.4 Describe the procedure for the protection of the marine environment in the event of a spill of fuel during refuelling.
- 2.5 Describe the recording and reporting requirements in the event of a spill of fuel.

Outcome 3

Describe the hazards of free refrigerant gases to vessel personnel and the marine environment.

Range ammonia and one other.

Performance criteria

- 3.1 Describe the hazards of free refrigerant gases to the safety of the vessel and vessel personnel in terms of the dangers of asphyxiation, poisoning, and possible explosion.
- 3.2 Describe the long-term effects of chlorofluorocarbon (CFC) and non-CFC refrigerant gases on the marine environment in terms of their effect on the ozone layer and global warming.
- 3.3 Describe the emergency procedures in the event of escaping refrigerant gases.

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	22 May 2003	31 December 2019
Review	2	17 October 2008	31 December 2019
Review	3	24 January 2019	N/A
Rollover and Revision	4	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.