

Title	Demonstrate knowledge of dangerous goods for cargo operations		
Level	3	Credits	3

Purpose	People credited with this unit standard are able to demonstrate knowledge of dangerous goods for cargo operations.
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Classification	Stevedoring and Ports Industry > Cargo Operations
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Available grade	Achieved
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Guidance Information

- Legislative and regulatory requirements relevant to this unit standard include – Health and Safety at Work 2015;
IMDG (International Maritime Dangerous Goods) Code, available at www.imo.org;
Approved Code of Practice for Health and Safety in Port Operations, available at [Health and safety in port operations | WorkSafe](#);
New Zealand Port and Harbour Marine Safety Code, available at [New Zealand Port and Harbour Marine Safety Code - Maritime NZ](#);
NZS 5433:2020 *Transport of dangerous goods on land*, available at [NZS 5433:2020 :: Standards New Zealand](#);
Part 24A Carriage of Cargoes – Dangerous Goods, available at [Part 24A: Carriage of Cargoes – Dangerous Goods](#);
SAA/SNZ HB 76:2010 *Dangerous goods – Initial emergency response guide*, available from [Dangerous Goods Initial Response Emergency Guide: Standards New Zealand](#);
and port bylaws.
- Any new, amended or replacement Acts, regulations, standards, codes of practice, guidelines, or authority requirements or conditions affecting this unit standard will take precedence for assessment purposes, pending review of this unit standard.
- Evidence presented for assessment against this unit standard must be consistent with safe working practices and be in accordance with company requirements, legislative requirements and regulatory requirements.
- Definitions
Company requirements refer to instructions to staff on policy and procedures that are available in the workplace. These requirements may include – company policies and procedures, work instructions and legislative requirements.
Regulatory requirements refer to regulations set by but not limited to the New Zealand Customs Service, Ministry for Primary Industries and WorkSafe New Zealand.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of dangerous goods for cargo operations.

Performance criteria

- 1.1 Dangerous goods are identified in terms of classes and additional hazards, and their labelling and compatibility.
- Range classes – classes 1-9, including sub-classes;
additional hazards – marine pollutant, elevated temperature, fumigation warning.
- 1.2 Dangerous goods classifications are explained in terms of hazards and effects.
- Range explanation covers physical, chemical, and toxicological properties.
- 1.3 Primary and subsidiary risk labelling is explained in terms of relative risk, and subsidiary risks are identified by reference to dangerous goods documentation.
- 1.4 The IMDG Code Dangerous Goods List is used to identify dangerous goods by Proper Shipping Name, special segregation requirements, class number or additional hazard, and United Nations (UN) number, and to identify information regarding relevant emergency procedures.
- 1.5 Types of dangerous goods documentation requirements are explained in terms of their purpose.
- Range dangerous goods declaration, container or vehicle packing certificate, competent authorities' approval.
- 1.6 Packaging and stowage requirements for dangerous goods are identified with reference to the IMDG Code.
- Range type of package, marking and labelling, segregation;
may include – UN marking, limited quantities;
evidence of three different examples are required.
- 1.7 For a specified port, the scope and inclusions of any sections of port bylaws referring to dangerous goods are summarised.
- 1.8 Safe handling for dangerous goods is described.
- Range use of handling equipment, use of appropriate signage and barriers, personal protective equipment, no smoking precautions, maintaining non-necessary personnel away from working areas, avoidance of exposure to hazards presented by the dangerous goods.

1.9 Special risks to dangerous goods cargo operations due to other operations are identified and are explained in terms of the risk and control of the risk.

1.10 Procedures for responding to an emergency involving dangerous goods are described.

Range the emergency sections of the IMDG Code, Dangerous Goods Initial Response Emergency Guide.

1.11 Procedure for reporting breaches involving dangerous goods is described.

Planned review date	31 December 2024
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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 2023
Review	2	17 September 2015	31 December 2023
Review	3	24 February 2022	N/A

Consent and Moderation Requirements (CMR) reference	0014
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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 Hanga-Aro-Rau Manufacturing, Engineering and Logistics Workforce Development Council qualifications@hangaarorau.nz if you wish to suggest changes to the content of this unit standard.