

Title	Demonstrate knowledge of faults and the preparation required to operate heavy port machinery		
Level	3	Credits	5

Purpose	People credited with this unit standard are able to: demonstrate knowledge of faults and machine isolation for heavy port machinery; and describe the preparation required to operate heavy port machinery.
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Classification	Stevedoring and Ports Industry > Port Machinery 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 Act 2015; *Approved Code of Practice for Health and Safety in Port Operations*, available at <https://www.worksafe.govt.nz/>; General Harbour (Ship, Cargo, and Dock Safety) Regulations 1968, available at http://www.nzlii.org/nz/legis/num_reg/ghcadsr1968463/; *International Maritime Dangerous Goods Code*, available at <http://www.imo.org>; Part 24a Maritime Rule, *Carriage of Cargoes – Dangerous Goods*, available at <https://www.maritimenz.govt.nz/rules/all-rules/maritime-rules-part-24a/>; and local 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.

- 5 Range
This standard is for heavy port machinery that exceeds 10 tonne working load capacity;
Evidence is required for three machines of a different make or model.
- 6 Competence in this standard is not a licence to operate. Machine-specific licencing and induction is required.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of faults and machine isolation for heavy port machinery.

Performance criteria

- 1.1 Types of faults are explained in terms of impact on machine functionality.
Range minimum of five is required.
- 1.2 Fault reporting is described.
- 1.3 Machine isolation is explained.

Outcome 2

Describe the preparation required to operate heavy port machinery.

Performance criteria

- 2.1 Pre-operational checks are described.
- 2.2 Start-up procedures are described.
- 2.3 Communication checks required between operational personnel are described.
- 2.4 Potential work area hazards are identified and control measures 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	17 September 2015	31 December 2019
Review	2	18 May 2017	31 December 2024
Review	3	24 February 2022	N/A
Revision	4	30 November 2023	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.