

<b>Title</b>	<b>Carry out cargo handling on and off a vessel</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>12</b>

<b>Purpose</b>	<p>This unit standard is for cargo handlers involved with the exchange of vessel cargo.</p> <p>People credited with this unit standard are able to: demonstrate knowledge of cargo handling and storage; prepare for cargo handling; release securing devices and ensure cargo is ready for unloading from the vessel; handle loads in conjunction with crane operations; and stow and secure cargo.</p>
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<b>Classification</b>	Stevedoring and Ports Industry > Cargo Operations
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<b>Available grade</b>	Achieved
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### Guidance Information

- 1 Evidence presented for assessment against this unit standard must be consistent with safe working practices and be in accordance with applicable service information, and company requirements and legislative requirements.
- 2 Legislation, regulations and/or industry standards relevant to this unit standard include but are not limited to – the current version of the Health and Safety at Work Act 2015; *Code of Practice for Health and Safety in Port Operations* available at <https://worksafe.govt.nz/>; and any subsequent amendments and replacements.
- 3 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, product quality specifications and legislative requirements.

*Crane*, for the purpose of this unit standard, may include but is not limited to – ship's crane, ship's gantry, swinging derrick, union purchase, and shore-based crane or gantry.

*Damage and/or deficiencies noticed* refers to damage that is clearly detectable and is significant enough, in terms of company policies and procedures, to report. Such damage and/or deficiencies may not necessarily have occurred during the current operation and/or be caused by the candidate.

*Hazards* refers to situations and conditions presenting actual or potential risk including but not limited to – risk of harm to persons and/or environment, risk of damage to property and/or process, and exposure to financial loss.

*Risk* refers to the likelihood that harm, damage or exposure might occur when exposed to a hazard.

*Service information* may include – technical information for a vehicle, machine, or product detailing operation; installation and servicing procedures; manufacturer instructions; technical terms and descriptions; and detailed illustrations.

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## Outcomes and performance criteria

### Outcome 1

Demonstrate knowledge of cargo handling and storage.

#### Performance criteria

1.1 Types of cargo relevant to candidate are described in terms of their typical handling requirements.

Range cargo types may include but are not limited to –  
container – ISO rating, size, type. Types may include refrigerated, dry, over height, high cube, flat rack, food grade, heavy rated;  
breakbulk – may include logs, pulp, timber, paper, steel, palletised, unitised, ingots;  
bulk – may include coal, grain, cement, fertiliser, sand, salt, urea, palm kernel, sugar, gypsum, wood chip, scrap metal;  
bulk liquid – may include petroleum, oil, molasses, wine, water, rum, tallow, chemicals, gas (LPG/CNG);  
specialised – may include project cargo, hazardous (IMDG code), explosive, refrigerated; livestock; passengers; roll-on/roll-off;  
minimum of two types.

1.2 On-port cargo storage is described in terms of the typical facilities and storage of different cargo types.

Range minimum of two types.

### Outcome 2

Prepare for cargo handling.

#### Performance criteria

2.1 Requirements of the operation are identified from briefing information provided.

Range includes but is not limited to – work to be done, location/s and time/s of work, person in charge, any known hazards.

### Outcome 3

Release securing devices and ensure cargo is ready for unloading from the vessel.

#### Performance criteria

3.1 Cargo to be unsecured is identified in accordance with the briefing information.

3.2 Securing devices are released and stowed to enable a safe and efficient operation.

Range may include but is not limited to – hatch covers, lashings, tomking, twist locks, cones.

3.3 A check is carried out of the cargo to ensure it is free and safe to discharge.

3.4 Care is taken to stand clear of loads and any cargo handling machinery.

#### **Outcome 4**

Handle loads in conjunction with crane operations.

#### **Performance criteria**

4.1 Positions from which loads are to be lifted are identified in order to maximise safety and efficiency.

Range from vessel or wharf.

4.2 Suitable lifting equipment is selected for the lift.

Range suitability of lifting equipment – fitness for purpose and adequate rating to ensure safe working load.

4.3 Attachment of lifting equipment is carried out using designated lifting points, where available. Where lifting points are not designated on cargo handling machinery or non-routine cargo, direction is sought from the person in charge.

4.4 Checking ensures that the lifting point is plumb in relation to the estimated centre of gravity of the load.

4.5 Manual assistance is provided as required to guide lifts at the beginning and end of lifts.

Range lifts – cargo, lids;  
may include – keeping load and/or lifting device clear of other objects, straightening load, assisting to kill swing, avoiding risk of being crushed or other harm, keeping clear of suspended loads.

4.6 Lifting equipment is detached and guided clear of load.

4.7 Cargo is placed on the vessel or wharf without damage and without harm to people.

4.8 Any stop in the exchange is communicated clearly to prevent damage or harm.

**Outcome 5**

Stow and secure cargo.

**Performance criteria**

- 5.1 Care is taken to stand clear of cargo handling machinery and suspended loads.
- 5.2 Cargo is secured safely and securely as required by the ship and, where applicable, instructions of the person in charge.

<b>Planned review date</b>	31 December 2022
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**Status information and last date for assessment for superseded versions**

Process	Version	Date	Last Date for Assessment
Registration	1	26 November 1997	31 December 2020
Revision	2	23 April 1999	31 December 2020
Revision	3	10 April 2000	31 December 2020
Review	4	26 July 2003	31 December 2020
Review	5	19 September 2008	31 December 2020
Review	6	17 September 2015	31 December 2020
Review	7	29 March 2018	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	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 MITO New Zealand Incorporated [info@mito.org.nz](mailto:info@mito.org.nz) if you wish to suggest changes to the content of this unit standard.