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| <b>Title</b> | <b>Operate a shore based conveyor belt loader for bulk dry cargo</b> |                |          |
| <b>Level</b> | <b>3</b>   | <b>Credits</b> | <b>3</b> |

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| <b>Purpose</b> | People credited with this unit standard are able to: describe hazards and hazard controls in the loading of bulk dry cargo with a shore based conveyor belt loader; prepare to operate a shore based conveyor belt loader; position the loader for ship loading; load dry bulk cargo into a ship; deal with blockages in the loader; and shut down and park the loader. |
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| <b>Classification</b> | Stevedoring and Ports Industry > Port Machinery Operations |
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| <b>Available grade</b> | Achieved |
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**Guidance Information**

- 1 Legislation and formal requirements relevant to this unit standard include: Health and Safety in Employment Act 1992; Resource Management Act 1991; Regional council bylaws.  
Recommended compliance requirements include the *Approved Code of Practice for Health and Safety in Port Operations* available at <http://www.business.govt.nz/worksafe/information-guidance/all-guidance-items/port-operations-code-of-practice-for-health-and-safety-in>.
- 2 Any new, amended or replacement Acts, regulations, Rules, standards, codes of practice, or conditions affecting this unit standard will take precedence for assessment purposes, pending review of this unit standard.
- 3 Definitions  
*Organisation* can mean company or employer.  
*Organisational requirements* include any legal requirements, standards, codes of practice, organisational and/or site requirements, industry best practice, and manufacturers' instructions. These must be available to candidates, providers, and assessors.  
*Shore based conveyor belt loader* refers to rail-mounted or rubber tyred machinery that loads bulk dry cargo directly onto a ship by means of a conveyor belt. The bulk dry cargo is continuously fed into a hopper in the rear of the machine by means of a separate conveyor system or by mobile machinery. In most cases, the loader is repositioned relative to the ship between loading phases, and this unit standard incorporates that process. Depending on the machinery concerned, a ship loader may be operated from the machine or by remote control.
- 4 All actions carried out must be in accordance with legal, safety, organisational, and site requirements that are applicable to each situation. Personal protective

equipment must be used throughout operations in accordance with organisational requirements.

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## Outcomes and performance criteria

### Outcome 1

Describe hazards and hazard controls in the loading of bulk dry cargo with a shore based conveyor belt loader.

#### Performance criteria

1.1 Description includes hazards and controls for the hazards in accordance with organisational requirements.

Range hazards include but are not limited to – repositioning the loader, foreign objects being expelled, dust, explosion.

### Outcome 2

Prepare to operate a shore based conveyor belt loader.

#### Performance criteria

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

Range includes but is not limited to – other personnel required and their roles, communication method/s, cargo to be loaded, order of work.

2.2 A pre-operational check is completed, and any necessary corrective actions taken, in accordance with organisational requirements.

Range communications established and checked (radio, hand signals where required), visual check of loader, hazards in operating area, lighting, weather, test of controls and functions.

### Outcome 3

Position the loader for ship loading.

#### Performance criteria

3.1 The loader is prepared for moving, and is moved into position for loading into the designated hatch area, as agreed with the person in charge.

Range may include but is not limited to – repositioning from the previous loading phase.

3.2 Moving into position is carried out in a safe and efficient manner, without risk of harm to personnel or damage to ship and machinery.

- 3.3 Coordination and communication with personnel is maintained throughout the positioning operation in accordance with organisational requirements.

#### **Outcome 4**

Load dry bulk cargo into a ship.

#### **Performance criteria**

- 4.1 Start up procedures are completed in accordance with operating instructions and organisational requirements.
- 4.2 Placement of cargo is in accordance with instructions of the person in charge, and results in minimal listing of the ship.
- 4.3 Loading is carried out in a safe and efficient manner, without risk of harm to personnel or the environment, or damage to ship and machinery.
- 4.4 Coordination and communication with other personnel during the loading are maintained in accordance with organisational requirements.

#### **Outcome 5**

Deal with blockages in the loader.

#### **Performance criteria**

- 5.1 Blockages in the loader are dealt with in accordance with operating instructions and organisational requirements.
- Range shut down, blockage removal or other remedy, reporting; may include restart.

#### **Outcome 6**

Shut down and park the loader.

#### **Performance criteria**

- 6.1 Shut down and parking procedures are completed safely in accordance with operating instructions and organisational requirements.

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**This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.**

**Status information and last date for assessment for superseded versions**

| Process               | Version | Date              | Last Date for Assessment |
|-----------------------|---------|-------------------|--------------------------|
| Registration          | 1       | 31 July 2003      | 31 December 2022         |
| Revision              | 2       | 15 October 2003   | 31 December 2022         |
| Review                | 3       | 27 October 2006   | 31 December 2022         |
| Rollover and Revision | 4       | 17 September 2015 | 31 December 2022         |
| Review                | 5       | 29 July 2021      | 31 December 2022         |

**Consent and Moderation Requirements (CMR) reference**

0145

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.