

Title	Operate a straddle carrier		
Level	3	Credits	6

Purpose	People credited with this unit standard are able to: describe factors affecting the operation of a straddle carrier; prepare for straddle carrier operations; move loads with a straddle carrier; and shut down a straddle carrier and report any defects.
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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 [Health and safety in port operations | WorkSafe](#);
Approved Code of Practice (ACOP) for Loading and Unloading Cargo, Maritime New Zealand available at New Zealand Port and Harbour Marine Safety Code, available at <https://www.maritimenz.govt.nz/media/stpfoige/approved-code-of-practice.pdf>;
New Zealand Port and Harbour Marine Safety Code, available at [New Zealand Port and Harbour Marine Safety Code - Maritime NZ](#);
IMDG (International Maritime Dangerous Goods) Code, available at www.imo.org; and local harbour 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

Describe factors affecting the operation of a straddle carrier.

Performance criteria

- 1.1 Straddle carrier's controls and their functions are described.
- 1.2 How factors combine to affect a straddle carrier's stability when moving are described.
 - Range centre of gravity (high, low), speed, change of direction, braking.
- 1.3 Factors that impact on the safe speed and manoeuvring of straddle carriers are described.
 - Range surface, weather, visibility, obstructions, other area users, straddle carrier capabilities, load, speed limits.
- 1.4 Company procedures to be followed when a breakdown occurs and when an emergency occurs are described.
- 1.5 Company radio channel allocations for working, emergency, and others that may apply are described.
- 1.6 Agreed hand signals for crane operations, and procedure to be followed if a hand signal is not clear or understood are described.
 - Range lift, lower, side shift left, side shift right, travel forward, travel back.
- 1.7 Terminal layout and yard slot positions and heights are described.

Outcome 2

Prepare for straddle carrier operations.

Performance criteria

- 2.1 Pre-driving checks are completed.
 - Range visual ground exterior checks of machine, wearing of correct personal protective equipment.
- 2.2 Start up procedures are completed.
- 2.3 Where required, communications are established with control centre before straddle carrier is moved.
 - Range radio and/or radio data transfer (RDT) equipment.

- 2.4 Work area hazards are identified before operations start.
- 2.5 Where required, straddle carrier is fitted with additional equipment for the type of container or cargo to be moved.

Range equipment includes – wires, chains, over height frames, strops.

Outcome 3

Move loads with a straddle carrier.

Range ISO container, non-ISO container, out-of-gauge (OOG), break bulk.

Performance criteria

- 3.1 Communication hand signals are agreed as required during operations.
- 3.2 Loads are picked up from, moved to, and set down in designated positions.
- 3.3 Load details and movement data are received and acknowledged and are sent using radio data transfer (RDT) equipment or U/VHF radio.
- 3.4 Hazards are reported.

Outcome 4

Shut down a straddle carrier and report any defects.

Performance criteria

- 4.1 Prior to shut down, straddle carrier is parked in the designated area.
- 4.2 Straddle carrier is shut down.
- 4.3 Any straddle carrier defects are reported.

Planned review date	31 December 2030
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	27 October 1999	31 December 2023
Revision	2	10 April 2000	31 December 2023
Review	3	26 July 2003	31 December 2023
Rollover and Revision	4	17 September 2015	31 December 2023
Review	5	24 February 2022	N/A
Review	6	26 June 2025	N/A

Consent and Moderation Requirements (CMR) reference

0014

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.