

Title	Undertake wharfside port mooring operations		
Level	3	Credits	20

Purpose	People credited with this unit standard are able to: demonstrate knowledge of wharfside mooring and unmooring; ensure safety of the mooring team; prepare for wharfside mooring and unmooring; undertake mooring and unmooring of a vessel.
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Classification	Stevedoring and Ports Industry > Cargo Operations
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Available grade	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.
Hazards refer 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.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of wharfside mooring and unmooring.

Performance criteria

1.1 Mooring terms are explained.

Range mooring line, bow line, breast line, stern line, storm rope, spring line, heaving line, pennant, rope tail, bollard, dipping the eye, singling up, bight, snatching, snap back zone.

1.2 Hazards relevant to mooring operations are described in terms of a potential consequence and control.

Range poor lighting, wind gusts, slippery surface, wharf obstructions, vehicles and machinery, non-authorized persons, heaving line weights, safe body position when retrieving lines, unsafe positions in relation to lines under tension and coming under tension, poor body posture, caught lines, sprags in wires, moving ropes on and off bollards, miscommunication, surge.

1.3 The importance of maintaining communication is described.

1.4 The procedure for when communication is broken is described.

1.5 Company requirements for personal protective equipment (PPE) for mooring operations are identified.

Outcome 2

Ensure safety of the mooring team.

Performance criteria

2.1 A pre-start safety discussion is held.

2.2 The hazard reporting procedure is described.

2.3 Prior to the commencement of work, a check is undertaken to ensure the mooring team members are equipped with the appropriate PPE.

Range includes but is not limited to – safety footwear, safety helmet, high visibility clothing, gloves, flotation vest, overalls.

Outcome 3

Prepare for wharfside mooring and unmooring activities.

Performance criteria

- 3.1 A pre-use inspection of any equipment used for mooring operations is carried out to ensure it is in safe working order.
- Range equipment used for mooring operations may include but is not limited to – folding ladder with locking pins; ladder gear – guy lines, holding lines and tripping line; life jackets and lifebuoy; heaving lines; torch and batteries; first aid equipment; rescue quoit (in throw bag); hypothermia blanket; lines trucks; mobile capstans; winches; shore-based moorings.
- 3.2 Working area is inspected for hazards to enable work to be carried out safely and efficiently.
- 3.3 Hazards are removed or isolated, reported and appropriate corrective action is taken prior to commencement of work.
- 3.4 Bridge mark is positioned correctly according to information received from pilot.
- 3.5 Communication is established and confirmed with the pilot and the marine team.

Outcome 4

Undertake mooring of a vessel.

Performance criteria

- 4.1 Ensure that the mooring team are positioned safely prior to the line being thrown, and to safely retrieve the heaving line after landing on the wharf.
- 4.2 The correct bollards are selected for the lines under advisement from pilot or ship's duty officer.
- 4.3 The heaving line is thrown from the wharf to the vessel in a safe and efficient manner.
- 4.4 Heaving lines and rope tails are clear of eye, bollards, walkways and crane rails.
- 4.5 Ensure the mooring team are standing on the correct side of the ships lines.
- 4.6 Checking is undertaken to ensure that team members are clear of the snapback zones prior to the lines coming under pressure.
- 4.7 Triangle of communication is maintained at all times with the pilot, ship's duty officer and mooring team.
- Range communication methods – via radio, visually.

Outcome 5

Undertake unmooring of a vessel.

Performance criteria

- 5.1 The removal of the ship's mooring lines from bollards is in the sequence as directed by the ships duty officer or pilot.
- 5.2 Checking is undertaken to ensure that team members are clear of the snapback zones until the lines are no longer under pressure.
- 5.3 Triangle of communication is maintained at all times with the pilot, ship's duty officer and mooring team.

Range communication methods – via radio, visually.

Planned review date	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	29 March 2018	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 the MITO New Zealand Incorporated info@mito.org.nz if you wish to suggest changes to the content of this unit standard.