

Title	Act as tug master within harbour limits		
Level	4	Credits	25

Purpose	People credited with this unit standard are able to: manage tug and tug resources; assess requirements and determine methods for towing/pushing of any object; carry out pre- and post-towage procedures; manoeuvre a tug to assist vessels with berthing and unberthing operations; and perform emergency manoeuvres.
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Classification	Stevedoring and Ports Industry > Vessels' Port Operations
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Available grade	Achieved
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Prerequisites	Inshore Launchmaster Certificate to Master Foreign Going (Class 1) or equivalent as specified in Maritime Safety Authority Manning Regulations.
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Guidance Information

- Legislative and regulatory requirements relevant to this unit standard include –
Health and Safety at Work Act 2015;
Maritime Transport Act 1994;
Maritime Safety Authority (MSA) Maritime Rules and Safe Ship Management, available at <https://www.maritimenz.govt.nz/>;
MSA Maritime Rules, Part 22;
MSA Manning Regulations;
International Convention on Standards of Training, Certification and Watchkeeping, available at [International Convention on Standards of Training, Certification and Watchkeeping for Seafarers, 1978 \(imo.org\)](https://www.imo.org/);
Approved Code of Practice for Health and Safety in Port Operations, available at [Health and safety in port operations | WorkSafe](#);
New Zealand Port and Harbour Marine Safety Code, available at [New Zealand Port and Harbour Marine Safety Code - Maritime NZ](#);
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.

- 4 Though not included in this unit standard, candidates are expected to have knowledge and experience of the following: local physical features (lights, navigational beacons, buoys, tides and currents, and hydrographic data) to a level of detail sufficient to safely manoeuvre a vessel; local port's communications, infrastructure, and emergency facilities; and the manoeuvring behaviour of ships in general. Confirmation a candidate has this knowledge and experience may be provided by the port authority or the candidate's employer.
- 5 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.
Tug refers to a high power to weight ratio tug.

Outcomes and performance criteria

Outcome 1

Manage tug and tug resources.

Performance criteria

- 1.1 All equipment used in the operation is checked and any repairs required are initiated.
- 1.2 The tug is checked to confirm it is ready for duty when required.
- Range tug, equipment, crew.

Outcome 2

Assess requirements and determine methods for towing/pushing of any object.

Range objects are, separately and/or in combination – powered, manned, non-powered, unmanned, afloat, submerged, aground.

Performance criteria

- 2.1 Towage methods are determined to ensure the safety of the tug and tow, and the efficiency of the tow, in the prevailing conditions.

Outcome 3

Carry out pre- and post-towage procedures.

Performance criteria

- 3.1 Requirements and conditions for tasks assigned are established.
- Range towage equipment, lifesaving and communications equipment, personnel (number, expertise, fitness) and times of availability, harbour traffic, weather, tide and wind, required duties.
- 3.2 Personnel and other resources are allocated to undertake the tasks.
- 3.3 Pre- and post-towage documentation is completed.
- 3.4 Tug is safely secured and is made ready for the next operation.

Outcome 4

Manoeuvre a tug to assist vessels with berthing and unberthing operations.

Performance criteria

- 4.1 Tug manoeuvring is carried out and ensures the safety of all personnel involved in operations and maintains the safety and structural integrity of port structures, tug, and other vessels.

Outcome 5

Perform emergency manoeuvres.

Performance criteria

- 5.1 Tug is manoeuvred to effect the safe rescue of personnel from the water in the shortest practical time.
- Range evidence may be from an actual and/or simulated situation or situations.
- 5.2 Search and rescue manoeuvres are employed.
- Range evidence may be from an actual and/or simulated situation or situations.
- 5.3 Tug is manoeuvred to extract itself from dangerous situations.
- Range dangerous situations include – other vessels out of control and approaching with risk of collision, being caught on the lee side, being caught under vessel's bow or stern; evidence may be from an actual and/or simulated situation or situations.

5.4 Tug manoeuvres to assist other vessels in perilous situations are described.

Range perilous situations – vessel on a lee shore, vessel aground, vessel damaged, vessel with a sudden emergency.

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	26 November 1997	31 December 2023
Revision	2	23 April 1999	31 December 2023
Revision	3	10 April 2000	31 December 2023
Review	4	28 June 2005	31 December 2023
Rollover and Revision	5	17 September 2015	31 December 2023
Review	6	24 February 2022	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.