

Title	Act as tug crew within harbour limits		
Level	2	Credits	8

Purpose	People credited with this unit standard are able to: use a tug's equipment and systems; use cordage and wire handling skills aboard a tug; connect, disconnect, and retrieve tow lines aboard a tug; operate a tug's emergency towage release equipment; assist in pre- and post-operational duties; perform bridge duties; and conduct man overboard procedures.
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Classification	Stevedoring and Ports Industry > Vessels' Port 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;
Maritime Transport Act 1994;
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/About/Conventions/Conventions%20and%20Agreements/Articles/Articles.aspx?id=1000);
Maritime Safety Authority Maritime Rules – Parts 22, 40 (A,B,C,D), 43, available at <https://www.maritimenz.govt.nz/>;
Local harbour bylaws;
Approved Code of Practice for Health and Safety in Port Operations, available at [Health and safety in port operations | WorkSafe](https://www.worksafe.govt.nz/Health-and-safety-in-port-operations);
New Zealand Port and Harbour Marine Safety Code, available at [New Zealand Port and Harbour Marine Safety Code - Maritime NZ](https://www.portnz.co.nz/Port-and-Harbour-Marine-Safety-Code).
- 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.

Tug refers to a high power to weight ratio tug.

Outcomes and performance criteria

Outcome 1

Use a tug's equipment and systems.

Performance criteria

1.1 Tug's equipment and systems are used for their intended purpose.

Range tug's equipment and systems – spare gear, standby towage gear, bilge pumping, on-board and personal life saving apparatus (LSA), fire-fighting equipment and systems, oil spill prevention equipment, alarm systems, escape systems, anchor or anchors, weather deck openings.

1.2 Radio equipment is operated in accordance with the operator's licence applicable to the equipment.

Range Maritime Rules Parts 40 A, B, C, and D; Maritime Rules Part 43.

Outcome 2

Use cordage and wire handling skills aboard a tug.

Performance criteria

2.1 Cordage and wire are handled.

2.2 Knots and/or splices are suitable for providing the most secure connection required.

2.3 Cordage is cared for to maintain safe working condition.

2.4 Any damage to cordage and wire is reported to the tug master as soon as practical after it is found.

Outcome 3

Connect, disconnect, and retrieve tow lines aboard a tug.

Performance criteria

- 3.1 Connection is made to the vessel using towing equipment in a manner that ensures the safety of the towed vessel, personnel on the towed vessel and tug, and the tug.
- Range in all weather states by day and night; in hazardous situations which include – movement of tug, water on deck; towing equipment – heaving lines, messengers, hawsers.
- 3.2 Disconnection and retrieval of tow line or lines are carried out.
- Range in all weather states by day and night; in hazardous situations which include but are not limited to – movement of tug, water on deck.
- 3.3 Line retrieval and disconnection after emergencies is described.

Outcome 4

Operate a tug's emergency towage release equipment.

Performance criteria

- 4.1 Emergency towage release equipment is set up so that it releases when required.
- Range towage equipment includes – hooks, winches, bitts, tow lines.
- 4.2 Emergency towage release is activated.
- Range towage release equipment – powered and/or manual.
- 4.3 Dangers involved when towing equipment releases or parts when under load are explained in terms of consequences and situations to be avoided.
- Range towing equipment includes – ropes, wires, joining shackles.

Outcome 5

Assist in pre- and post-operational duties.

Performance criteria

- 5.1 Cast-off procedures are carried out.
- Range checking and preparing personal safety equipment and safety and man overboard gear, open-up routines, removal of tug to shore services, preparing and checking towage gear, casting off moorings.

- 5.2 Post-operational procedures are carried out and ensure the tug is safely secured.

Range mooring, connection of tug to shore services, stowage of gear, shutdown routines.

Outcome 6

Perform bridge duties.

Performance criteria

- 6.1 Any navigational hazards are identified and their presence is immediately notified to the tug master.

Range identification methods – sight; sound; may include electronic means.

- 6.2 Vessel is steered in free-running mode.

Range on one's own, under command.

Outcome 7

Conduct man overboard procedures.

Range evidence may be from an actual and/or simulated situation or situations.

Performance criteria

- 7.1 Initial actions to be taken are carried out.

- 7.2 Retrieval equipment is prepared, deployed, and used to recover a person in the water as instructed by the tug master.

- 7.3 Personnel are extracted from the water in a manner which maximises their chances of survival.

- 7.4 Recovered personnel are assessed and given first aid as required.

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	18 September 2009	31 December 2023
Rollover and Revision	6	17 September 2015	31 December 2023
Review	7	24 February 2022	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.