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

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| 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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| Entry information | |
| Critical health and safety prerequisites | Open. |

Explanatory notes

- 1 Legislation and formal requirements relevant to this unit standard include:
Health and Safety in Employment Act 1992;
Maritime Transport Act 1994;
International Convention on Standards of Training Certification and Watchkeeping;
Maritime Safety Authority Maritime Rules – Parts 22, 40 (A,B,C,D), 43;
Local harbour bylaws.
- 2 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
- 3 Personal protective equipment must be used throughout operations in accordance with company policies and procedures.
- 4 Definitions
Company policies and procedures refer to relevant workplace documents which are current and accessible to candidates, trainers, and assessors, and which comply with legal requirements.
Tug refers to a high power to weight ratio tug.

Outcomes and evidence requirements

Outcome 1

Use a tug's equipment and systems.

Evidence requirements

1.1 Tug's equipment and systems are used for their intended purpose in accordance with manufacturers' instructions and company policies and procedures, and in a manner that ensures the safety of the tug, crew, and other vessels using the port.

Range tug's equipment and systems include but are not limited to – 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.

Evidence requirements

2.1 Cordage and wire are handled in accordance with manufacturers' instructions and company policies and procedures and in a manner that ensures the safety of all personnel and vessels.

2.2 Knots and/or splices are suitable for providing the most secure connection required for safe and efficient operations and are in accordance with manufacturers' instructions and/or company policies and procedures.

2.3 Cordage is cared for to maintain safe working condition in accordance with company policies and procedures.

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.

Evidence requirements

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 but are not limited to – 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 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 but are not limited to – movement of tug, water on deck.

3.3 Description of line retrieval and disconnection after emergencies is consistent with company policies and procedures.

Outcome 4

Operate a tug's emergency towage release equipment.

Evidence requirements

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 immediately and safely in accordance with company policies and procedures.

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 but is not limited to – ropes, wires, joining shackles.

Outcome 5

Assist in pre- and post-operational duties.

Evidence requirements

5.1 Cast-off procedures are carried out in accordance with company policies and procedures.

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 in accordance with company policies and procedures 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.

Evidence requirements

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 in accordance with company policies and procedures.

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.

Evidence requirements

7.1 Initial actions to be taken are carried out in accordance with company policies and procedures.

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 and in accordance with company policies and procedures.
- 7.4 Recovered personnel are assessed and given first aid as required.

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| Planned review date | 31 December 2020 |
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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 | N/A |
| Revision | 2 | 23 April 1999 | N/A |
| Revision | 3 | 10 April 2000 | N/A |
| Review | 4 | 28 June 2005 | N/A |
| Rollover and Revision | 5 | 18 September 2009 | N/A |
| Rollover and Revision | 6 | 17 September 2015 | N/A |

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| Consent and Moderation Requirements (CMR) reference | 0145 |
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Please note

Providers must be granted consent to assess against standards (accredited) by NZQA, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be granted consent to assess against standards by NZQA before they can register credits from assessment against unit standards.

Providers and Industry Training Organisations, which have been granted consent and which are assessing against unit standards must engage with the moderation system that applies to those standards.

Requirements for consent to assess and an outline of the moderation system that applies to this standard are outlined in the Consent and Moderation Requirements (CMR). The CMR also includes useful information about special requirements for organisations wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

Comments on this unit standard

Please contact the SSB ssb@email.address if you wish to suggest changes to the content of this unit standard.