

<b>Title</b>	<b>Act as tug master within harbour limits</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>25</b>

<b>Purpose</b>	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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<b>Classification</b>	Stevedoring and Ports Industry > Vessels' Port Operations
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<b>Available grade</b>	Achieved
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<b>Entry information</b>	
<b>Critical health and safety prerequisites</b>	Prerequisite: Inshore Launchmaster Certificate to Master Foreign Going (Class 1) or equivalent as specified in Maritime Safety Authority Manning Regulations.

**Explanatory notes**

- 1 Compliance requirements include but are not limited to: Health and Safety in Employment Act 1992; Maritime Transport Act 1994; Maritime Safety Authority (MSA) Maritime Rules and Safe Ship Management; MSA Manning Regulations; International Convention on Standards of Training, Certification and Watchkeeping; MSA Maritime Rules, Part 22; and Local harbour By-laws.
- 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 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 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.

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## Outcomes and evidence requirements

### Outcome 1

Manage tug and tug resources.

#### Evidence requirements

- 1.1 Management ensures all equipment used in the operation is checked and any repairs required are initiated in accordance with company policies and procedures.
- 1.2 Management ensures the tug is ready for duty when required in accordance with company policies and procedures.

Range includes but is not limited to – 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.

#### Evidence requirements

- 2.1 Towing 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-towing procedures.

#### Evidence requirements

- 3.1 Requirements and conditions for tasks assigned are established in accordance with company policies and procedures.  
  
Range towing 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 assigned in accordance with company policies and procedures.
- 3.3 Pre- and post-towing documentation is completed in accordance with company policies and procedures and the requirements of recipients.

- 3.4 Tug is safely secured and is made ready for the next operation in accordance with company policies and procedures.

#### **Outcome 4**

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

#### **Evidence requirements**

- 4.1 Tug manoeuvring ensures the safety of all personnel involved in operations in accordance with company policies and procedures.
- 4.2 Tug manoeuvring maintains the safety and structural integrity of port structures, tug, and other vessels in accordance with company policies and procedures.

#### **Outcome 5**

Perform emergency manoeuvres.

#### **Evidence requirements**

- 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 in accordance with company policies and procedures.
- 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 but are not limited to – 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 in accordance with company policies and procedures.
- Range perilous situations – vessel on a lee shore, vessel aground, vessel damaged, vessel with a sudden emergency.

<b>Planned review date</b>	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	17 September 2015	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	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](mailto:ssb@email.address) if you wish to suggest changes to the content of this unit standard.