

Title	Navigate and manoeuvre vessel used for port operations within harbour limits		
Level	4	Credits	15

Purpose	<p>This unit standard is for personnel engaged in the role of a vessel's master involved in port operations.</p> <p>People credited with this unit standard are able to navigate and manoeuvre the vessel within harbour limits, and demonstrate knowledge of safety on the vessel.</p>
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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

- 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; classification society rules; 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 Navigational requirements are substantially dependent upon the local conditions prevailing in the harbour limits which vary between one place and another due to

different climatic, nautical, and shipping conditions. The navigation intended covers the safe conduct of the vessel within harbour limits by day and night, in all weathers and in all conditions of visibility.

6 Definitions

Classification society refers to an organisation which establishes and maintains proper technical standards for the construction and classification of ships, supervises their construction, and carries out regular surveys of ships in service to ensure continued seaworthiness and compliance with safety standards.

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.

Vessel used for port operations refers to any one of, but is not limited to, tug, pilot launch, mooring boat, dredge, or hydrographic survey boat.

Outcomes and performance criteria

Outcome 1

Navigate the vessel within harbour limits.

Performance criteria

- 1.1 Navigation of the vessel conforms to Rules, regulations, and company policies and procedures.
- 1.2 Technical aids to navigation are utilised to the extent of their limitations to complement or supplement visual information.
- 1.3 Passage planning and contingency techniques are used to cover normal and extraordinary events sufficient to conduct the safe passage of the vessel.
- 1.4 Risk is managed by exercising judgement on limitations that preclude safe navigation.

Range limitations include – adverse weather, mechanical deficiencies, human factors, communication breakdowns, temporary port constraints, any limitations on vessel's power.

Outcome 2

Manoeuvre the vessel within harbour limits.

Performance criteria

- 2.1 Vessel type, size, and handling characteristics are balanced against the prevailing conditions of the tide, sea state, visibility, traffic, and weather conditions, in order to maintain the safety of the vessel, all personnel aboard, any cargo, other traffic, and the environment.
- 2.2 Berthing, unberthing, and anchoring manoeuvres retain the structural integrity of the vessel and port structures.

Outcome 3

Demonstrate knowledge of safety on the vessel.

Performance criteria

3.1 Emergency response procedures are described in accordance with company policies and procedures.

Range fire, collision, grounding, medical, man overboard.

3.2 Maintenance for vessel's safety equipment is described in terms of MSA rules and Safe Ship Management, and classification society rules.

3.3 Hazards are described in terms of their control in accordance with company policies and procedures.

Range particular to vessel type and operation; includes but is not limited to – slipping, tripping, crushing, overhead hazards, fatigue.

This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	26 November 1997	31 December 2022
Revision	2	23 April 1999	31 December 2022
Revision	3	10 April 2000	31 December 2022
Review	4	28 June 2005	31 December 2022
Rollover and Revision	5	17 September 2015	31 December 2022
Review	6	29 July 2021	31 December 2022

Consent and Moderation Requirements (CMR) reference

0145

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.