

Title	Demonstrate knowledge of hazards, distress signalling systems, and emergency procedures on a vessel		
Level	3	Credits	8

Purpose	<p>This unit standard is intended for persons studying towards a qualification in vessel operation or crewing with the intention of applying for a Maritime New Zealand licence.</p> <p>People credited with this unit standard are able to: demonstrate knowledge of environmental hazards and precautions to be taken by deck crew to minimise the impact of these hazards; demonstrate knowledge and use of distress signalling systems; and demonstrate knowledge of emergency procedures for the vessel.</p>
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Classification	Maritime > Sea Survival and Sea Safety
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Available grade	Achieved
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Guidance Information

- 1 Legislation
 - Health and Safety at Work Act 2015.
 - Maritime Transport Act 1994 and subsequent amendments.
- 2 Definitions
 - Accepted industry practice* refers to approved and standardised procedures accepted by the wider maritime industry as examples of best practice.
 - EPIRB* refers to emergency position indicating radio beacon.
 - Operating procedures* refers to the safe operating procedures documented in the vessel's Marine Transport Operator Plan as well as any undocumented standard operating procedures for that vessel.
 - Personal flotation devices* refers to life jackets and buoyancy aids.
 - Pyrotechnic distress signalling systems* refers to smoke flares, pinpoint flares, parachute flares.
 - Vessel* refers to any form of commercial or military watercraft; sometimes used in maritime circles interchangeably with the word *ship*.
- 3 Assessment information
 - a The operation of EPIRBs and flares may be demonstrated in a simulated situation.
 - b All activities and evidence must be in accordance the vessel's operating procedures, and accepted industry practice.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of environmental hazards and precautions to be taken by deck crew to minimise the impact of these hazards.

Performance criteria

- 1.1 Maritime publications containing safety information are located and the relevant safety information identified.
- Range may include but is not limited to – tide charts, nautical almanac, marine weather forecasts, nowcasts, notices to mariners, charts, marine transport operator plan.
- 1.2 Environmental hazards which may harm the vessel, its cargo, or people on board are identified and described.
- Range tidal conditions, weather conditions, navigational hazards.
- 1.3 Precautions to be taken by deck crew to minimise the effect of environmental hazards on the vessel, its cargo, or people on board are demonstrated.

Outcome 2

Demonstrate knowledge and use of distress signalling systems.

Performance criteria

- 2.1 Pyrotechnic distress signalling systems are identified, their applications are explained, and the steps to activate them are demonstrated in accordance with manufacturer's instructions.
- 2.2 The operating principles of EPIRBs are explained and the steps to activate them are demonstrated in accordance with manufacturer's instructions.
- 2.3 The use and limitations of cell phones for sending emergency calls are explained.
- 2.4 The service date for an EPIRB is determined in accordance with manufacturer's instructions.
- 2.5 Expiry dates for pyrotechnic signalling equipment are determined and the procedures for their disposal are explained in accordance with manufacturer's instructions.

Outcome 3

Demonstrate knowledge of emergency procedures for the vessel.

Performance criteria

- 3.1 Procedures for abandoning ship are described.
- 3.2 The role of each crew member in an emergency is described.
- 3.3 Emergency shutdown and isolation procedures, within the range of responsibility of the candidate, are implemented.
- 3.4 The vessel's muster stations and access routes to them are located.
- 3.5 Lifesaving appliances are identified and described in terms of their location on the vessel, method of deployment, and intended use in accordance with manufacturer's instructions.
- Range may include but is not limited to – personal flotation devices, buoyancy aids, life rafts, life boats.
- 3.6 Man overboard procedures are explained.
- Range "Man Overboard" signals, search procedures, retrieval procedures.

Planned review date	31 December 2025
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	20 October 2016	31 December 2022
Review	2	24 September 2020	N/A

Consent and Moderation Requirements (CMR) reference	0013
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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 Competenz qualifications@competenz.org.nz if you wish to suggest changes to the content of this unit standard.