

Title	Extinguish fire on board a vessel safely		
Level	3	Credits	4

Purpose	<p>This unit is intended for people who require advanced marine firefighting skills to work on vessels not covered by the requirements of STCW-2010.</p> <p>People credited with this unit standard are able to: select, don, and use protective clothing and life support equipment on board a vessel; identify hazards and manage risks which may impact on the firefighting operation; and extinguish a fire on board a 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 relevant to this unit standard includes:
Health and Safety at Work Act 2015.
Maritime Transport Act 1994 and subsequent amendments.
Local bylaws as applicable.
- 2 References
Maritime Rules and advisory circulars. Available at <http://www.maritimenz.govt.nz>.
- 3 Definitions
MTOP stands for Maritime Transport Operator Plan which refers to the documented operational plan required for all commercial vessels as a part of the Maritime Operator Safety System (MOSS), the operator certification system established under Part 19 of the Maritime Rules and administered by Maritime New Zealand.
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.
Prescribed procedures refers to one or more of the following procedures:
 - standard operating procedures for equipment,
 - manufacturer's specifications, operating procedures, and codes of practice,
 - safe operating procedures documented in the vessel's MTOP as well as any undocumented standard operating procedures for that vessel.*STCW* refers to the International Maritime Organisation's convention on the Standards of Training, Certification and Watchkeeping for Seafarers. The convention establishes basic requirements on training, certification and watchkeeping for seafarers on an international level.

Vessel refers to any form of commercial or military watercraft and is sometimes used in maritime circles interchangeably with the word ship.

- 4 This unit is not intended for people requiring marine firefighting certification to the standards required by STCW-Basic (Standards for Training Certification and Watchkeeping 2010). These people should complete Unit 12310, *Demonstrate knowledge of fire prevention and limitation and extinguish small fires on-board a vessel* and Unit 29220, *Fight fires to STCW-Basic requirements in enclosed spaces on a vessel*.
- 5 Assessment information
 - a Competency may be demonstrated using simulated scenarios.
 - b All activities and evidence must be in accordance with vessel operating procedures, prescribed procedures, and accepted industry practice.

Outcomes and performance criteria

Outcome 1

Select, don, and use protective clothing and life support equipment on board a vessel.

Range protective clothing may include but is not limited to – fire-fighters' turn-out clothing, chemical splash suit, gas tight suits;
life support equipment may include but is not limited to – self-contained breathing apparatus (BA), air lines, guidelines, distress signal units (DSU).

Performance criteria

- 1.1 Protective clothing and life support equipment are selected and donned to fight fire.
- 1.2 Protective clothing and life support equipment are tested prior to entry into fire and emergency situations.
- 1.3 Life support equipment is operated.

Outcome 2

Identify hazards and manage risks which may impact on the firefighting operation.

Performance criteria

- 2.1 Hazards within the work area which may impact the firefighting operation are identified.
- 2.2 Risks that can be managed are acted upon or reported.
- 2.3 Identified damage or defects are reported.

Outcome 3

Extinguish a fire on board a vessel.

Range methods may include but are not limited to – water, foam, or chemical agent, compressed gas and smothering devices.

Performance criteria

- 3.1 Equipment for the fire type and nature is selected, directed, and operated to control and extinguish the fire.
- 3.2 The fire is extinguished in a timely and safe manner, minimising damage to the vessel and injury to personnel.
- 3.3 Safety procedures applying to the use of installed fire suppression systems and detection systems are adhered to.

Range installed fire suppression and detection systems may include but are not limited to – sprinklers and drenchers, automatic and manual alarms, booster and hydrant systems, gas suppression systems, mechanical venting and air handling systems, evacuation alarm systems, and smoke and heat detectors.

- 3.4 Personal protection is maintained throughout the fire suppression operation.
- 3.5 Extinguishing agents are used to ensure fast knockdown of the fire, protection of the vessel and its contents, and avoidance of chemical reactions in accordance with manufacturer's instructions.

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	21 May 1995	31 December 2015
Review	2	30 January 1997	31 December 2015
Revision	3	10 September 2004	31 December 2016
Review	4	15 October 2015	31 December 2022
Revision	5	21 April 2016	31 December 2022
Review	6	24 September 2020	N/A

Consent and Moderation Requirements (CMR) reference	0054
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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.