



Australian Government

MARM010 Survey lifesaving appliances, fire and other safety systems

Release: 1

MARM010 Survey lifesaving appliances, fire and other safety systems

Modification History

Release 1. New unit of competency.

Application

This unit involves the skills and knowledge required to assess operational condition of lifesaving appliances, fire and other safety systems, including verifying the monitoring of systems and their components to ensure they function.

This unit applies to people working in the maritime industry as a marine surveyor assistant.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Not applicable.

Competency Field

M – Marine Surveying

Unit Sector

Not applicable.

Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

1 Identify requirements for lifesaving appliances, fire and other safety systems

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| 1.1 | Types of lifesaving appliances, fire and other safety systems relevant to type of vessel under survey are identified and incorporated into survey plan |
| 1.2 | Maintenance requirements for lifesaving appliances, fire and other safety systems are identified and incorporated into survey plan according to regulatory requirements |
| 1.3 | Correct type and scale of safety equipment is identified according to size, type and operational area of vessel being surveyed |

	1.4	Documentation requirements for safety systems for vessel size and nature are identified, accessed and confirmed against survey plan
2 Assess operational condition of lifesaving appliances, fire and other safety systems	2.1	Powers and responsibility for inspecting and reporting operational condition of lifesaving appliances, fire and other safety systems are identified, reviewed and applied to survey tasks
	2.2	Inspection and assessment of condition of lifesaving appliances, fire and other safety systems and consumables is carried out according to regulatory and organisational requirements
	2.3	Inspection and assessment of maintenance procedures for lifesaving appliances, fire and other safety systems and consumables on board a commercial vessel are carried out according to regulatory and organisational requirements
3 Review and report on documentation for lifesaving appliances, fire and other safety systems	3.1	Records and certificates related to routine monitoring and maintenance of condition of lifesaving appliances, fire and other safety systems and equipment is reviewed
	3.2	Actions to be taken to maintain, repair or replace lifesaving appliances, fire and other safety systems are communicated to appropriate personnel according to organisational and/or regulatory requirements
	3.3	Recordkeeping and reporting requirements related to condition of lifesaving appliances, fire and other safety systems are carried out according to regulatory and organisational requirements

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Lifesaving appliances include one or more of the following:	• emergency position indicating radio beacons (EPIRBs) • first aid • life buoys and jackets • pyrotechnics • search and rescue transponders (SARTs) • self-contained breathing apparatus (SCBA) • survival craft
Fire systems include one or more of the following:	• air flaps • CO2 • dry chemical and wet foam • fan shut-offs • fire detection alarms • foam • portable fire extinguishers • water
Regulatory requirements include one or more of the following:	• National Standard for Commercial Vessels (NSCV) • Marine Safety (Domestic Commercial Vessel) National Law • WHS/OHS legislation, regulations and codes of practice
Consumables include one or more of the following:	• batteries for detectors, radios, beacons, etc. • dry and wet chemicals used in fire extinguishers • flares • survival rations
Maintenance procedures include one or more of the following:	• identifying faults in and damage to lifesaving appliances, fire and other safety systems and equipment • routine checks for operational serviceability of lifesaving appliances, fire and other safety systems and equipment
Records and certificates include one or more of the following:	• licensed contractor certificates of inspection • lifesaving appliances, fire and other safety systems and equipment operational and maintenance instructions and recommended procedures • NSCV and applicable Australian and international regulatory requirements • relevant maritime authority instructions for the maintenance and serviceability of shipboard lifesaving appliances, fire and other safety systems and equipment • safety management system (SMS) plans, procedures, checklists and instructions • vessel log books

Unit Mapping Information

This unit replaces and is equivalent to MARM4006A Survey lifesaving appliances, fire and other safety systems.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=772efb7b-4cce-47fe-9bbd-ee3b1d1eb4c2>

Assessment Requirements for MARM010 Survey lifesaving appliances, fire and other safety systems

Modification History

Release 1. New unit of competency.

Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements, performance criteria and range of conditions on at least one occasion and include:

- applying relevant work health and safety/occupational health and safety (WHS/OHS) requirements and work practices
- communicating effectively verbally and in writing
- developing effective planning documents
- identifying variations in equipment and systems between different vessels, and when equipment and systems are changed on a vessel
- providing high quality reports
- reading and interpreting technical specifications and other graphical information related to lifesaving appliances, fire and other safety systems and consumables
- receiving and interpreting oral and written orders and instructions related to maintaining operational condition of lifesaving appliances, fire and other safety systems
- recognising faults and defects in lifesaving appliances, fire and other safety systems, and taking appropriate action to report non-compliance or maintenance requirements.

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements, performance criteria and range of conditions and include knowledge of:

- applicable sections of the Marine Safety (Domestic Commercial Vessel) National Law
- importance of maintaining lifesaving appliances, fire and other safety systems and equipment, and potential consequences if systems and/or equipment are not operational during an emergency
- safety management system (SMS) plans, procedures, checklists and instructions (where applicable) as they relate to lifesaving appliances, fire and other safety systems and equipment
- lifesaving appliances and fire systems:
 - installation
 - maintenance

- use
- relevant legislation, regulations, codes of practice, policies and procedures related to maintaining lifesaving appliances, fire and other safety systems and equipment
- relevant state and territory maritime regulations
- statutory and organisational requirements for documenting condition and maintenance procedures and outcomes for lifesaving appliances, fire and other safety systems and equipment used on board vessels
- WHS/OHS legislation, policies and procedures.

Assessment Conditions

Assessors must satisfy National Vocational Education and Training Regulator (NVR)/Australian Quality Training Framework (AQTF) assessor requirements.

Assessment must satisfy the National Vocational Education and Training Regulator (NVR)/Australian Quality Training Framework (AQTF) standards.

Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Assessment must occur in workplace operational situations or where these are not available, in simulated workplace operational situations or an industry-approved marine operations site that replicates workplace conditions, where lifesaving appliances, fire and other safety systems can be surveyed.

Resources for assessment include access to:

- relevant documentation including workplace procedures, regulations, codes of practice and operation manuals
- tools, equipment, material and personal protective equipment currently used in industry.

Performance should be demonstrated consistently over time and in a suitable range of contexts.

Links

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