



Australian Government

MARF007 Operate survival craft and other lifesaving appliances

Release: 2

MARF007 Operate survival craft and other lifesaving appliances

Modification History

Release 2. ISC upgrade. KE amended to include awareness of MLC and International code of signals included in KE.

Release 1. New unit of competency.

Application

This unit involves the skills and knowledge required to comply with accepted safety practices and standards in responding to abandon ship and survival situations.

This unit applies to crew members required to assist in the operation of survival craft and other lifesaving appliances on a range of vessels.

This unit has links to legislative and certification requirements.

Pre-requisite Unit

Not applicable.

Competency Field

F – Operational Quality and Safety

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Launch survival craft and rescue boats

PERFORMANCE CRITERIA

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

- 1.1 Preparations for the launch of the survival craft or rescue boat are made according to manufacturer instructions and organisational procedures
- 1.2 Launch strategy is adopted appropriate to the prevailing circumstances and conditions
- 1.3 Launching equipment is operated according to manufacturer instructions and organisational procedures

- | | | |
|---|-----|---|
| | 1.4 | Survival craft or rescue boat is launched smoothly according to accepted safety practices and standards |
| 2 Operate survival craft and rescue boats | 2.1 | Pre-start checks are conducted on the engine |
| | 2.2 | Engine is started according to manufacturer instructions and organisational procedures |
| | 2.3 | Orders are given for survivors to board the survival craft |
| | 2.4 | Survival craft is cleared of the vessel and operated according to manufacturer instructions and organisational procedures |
| | 2.5 | Survival craft is manoeuvred appropriately for the prevailing circumstances and conditions |
| 3 Operate lifesaving and survival equipment | 3.1 | Location and accessibility of all lifesaving and survival equipment is established |
| | 3.2 | Survival equipment is checked and operated according to manufacturer instructions and organisational procedures |
| | 3.3 | Lifesaving clothing is correctly donned and used according to manufacturer instructions and organisational procedures |
| | 3.4 | Strategies are implemented to counter threats to survival according to accepted survival practice |
| 4 Recover survival craft | 4.1 | Persons are disembarked from the survival craft according to organisational procedures |
| | 4.2 | Survival craft is recovered according to manufacturer instructions and organisational procedures |
| | 4.3 | Survival craft and equipment are checked for signs of damage and faulty equipment |
| | 4.4 | Identified faulty equipment or damage is reported according to organisational procedures |
| 5 Organise abandon vessel musters and drills | 5.1 | Abandon vessel musters and drills are arranged according to regulatory requirements and organisational procedures |
| | 5.2 | Instruction is provided to others on organisational procedures and the correct use of lifesaving equipment |
| | 5.3 | Musters and drills are reviewed against objectives |
| | 5.4 | Reporting obligations are completed according to regulatory requirements and organisational procedures |

5.5 Risk control processes are implemented

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance.

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

Range of Conditions

Specifies different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included.

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

Survival craft and rescue boats must include:

- life rafts
- lifeboats
- rescue boats

Launching equipment must include:

- cranes
- davits
- life raft launching and inflation equipment

Lifesaving and survival equipment must include:

- immersion suits
- life jackets
- person overboard combination light and smoke float
- portable radio equipment
- pyrotechnic distress signals
- search and rescue transponders (SARTs)
- satellite emergency position indicating radio beacons (EPIRBs)
- thermal protective aids

- Strategies must include:
- beaching survival craft
 - deploying exposure cover on an open lifeboat
 - handling survival craft in rough weather
 - helicopter rescue from survival craft
 - maximising detect-ability of survival craft
 - preventing and treating hypothermia
 - rationing food and water
 - using rescue boat to marshal life rafts
 - using rescue boat to retrieve survivors in the sea

Unit Mapping Information

This is a new unit. This unit is equivalent to MARF3004A Operate survival craft and other lifesaving appliances.

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 MARF007 Operate survival craft and other lifesaving appliances

Modification History

Release 2. ISC upgrade. KE amended to include awareness of MLC and International code of signals included in KE.

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 and performance criteria on at least one occasion and include:

- acting appropriately in the prevailing circumstances and conditions in response to abandon ship and survival situations according to accepted safety practices and standards
- communicating effectively with others as required when operating survival craft and ancillary survival equipment
- conducting inspections of other survival equipment at intervals determined by the safety management system
- conducting tests and pre-start checks of equipment at intervals determined by the safety management system
- giving correct commands for launching and boarding survival craft and clearing the ship
- interpreting and applying International Convention for the Safety of Life at Sea (SOLAS) practices and regulations
- launching and operating various types of survival craft
- organising abandon vessel drills
- reading and interpreting instructions relevant to the safe operation of lifesaving appliances on board a vessel
- recovering survival craft and rescue boats and resetting release devices
- rowing and steering a survival craft and rescue boat
- safely operating off-load and on-load release devices
- selecting and using appropriate lifesaving appliances and communications equipment
- using a compass
- using portable radio equipment, pyrotechnics and other signalling equipment
- using survival craft equipment including rigging devices to aid location.

Knowledge Evidence

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

- construction and outfit of survival craft and rescue boats
- dangers associated with the use of on-load release devices

- emergency muster and abandon vessel signals
- International code of signals (ICS), purpose and meaning of signals
- International Maritime Organization (IMO) safety symbols
- International Safety Management (ISM) Code safety management system plans, procedures, checklists and instructions
- maintenance procedures for survival craft and rescue boats
- manoeuvring characteristics of survival craft and rescue boats
- Maritime Labour Convention (MLC) amendments 2014
- operation of survival craft and rescue boats, their launching appliances and arrangements and their equipment
- procedures and sequences for launching, carrying out pre-start engine checks and operating survival craft and rescue boats in a variety of sea and weather conditions
- procedures for correctly operating and using lifesaving appliances and personal safety equipment on vessels and survival craft
- relevant sections of applicable maritime regulations
- relevant work health and safety (WHS)/occupational health and safety (OHS) legislation
- SOLAS regulations
- symptoms of hypothermia, its prevention and treatment
- threats to survival on abandonment of a vessel and appropriate strategies for countering these threats
- typical manoeuvring and engine characteristics for survival craft
- ways of maximising detectability and location of survival craft using radio lifesaving appliances, pyrotechnic distress signals, satellite emergency position indicating radio beacons (EPIRBs), and search and rescue transponders (SARTs).

Assessment Conditions

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

Assessment must occur in workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in simulated workplace operational situations that reflect workplace conditions.

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.

Resources for assessment must include access to:

- tools, equipment, machinery, materials and personal protective equipment currently used in industry
- applicable documentation such as legislation, regulations, codes of practice, workplace procedures and operational manuals
- range of relevant exercises, case studies and/or simulations.

Links

Companion Volume implementation guides are found in VETNet -

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