



Australian Government

MARF005 Survive at sea using survival craft

Release: 2

MARF005 Survive at sea using survival craft

Modification History

Release 2. Mapping information has been corrected.

Release 1. New unit of competency.

Application

This unit involves the skills and knowledge required to survive at sea using survival craft.

This unit applies to deck and engine workers working in the maritime industry on vessels up to 80 metres. They could be working independently or as part of a vessel crew.

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 describe the essential outcomes.

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

1 Prepare to abandon vessel

- 1.1 Nature of emergency is determined to minimise potential dangers and threats
- 1.2 Muster and abandon vessel signals are responded to according to vessel safety procedures
- 1.3 Survival equipment is organised to maximise chances of survival
- 1.4 Emergency position indicating radio beacon (EPIRB) is operated to transmit distress signal
- 1.5 Distress calls are made using radio equipment

- 1.6 Others are assisted to maximise their chances of survival
 - 1.7 Prevailing circumstances and emergency conditions are used as the basis for timing and sequencing individual survival actions, and potential dangers and threats to other survivors are minimised
- 2 Operate lifesaving and survival equipment**
 - 2.1 Location and accessibility of lifesaving and survival equipment is established
 - 2.2 Survival craft is launched in a timely and effective manner
 - 2.3 Survival equipment is operated according to instructions and accepted survival practice
 - 2.4 Survival radio equipment is operated according to manufacturer instructions and regulatory protocols
 - 2.5 Lifejacket and other lifesaving clothing are correctly used according to instructions
- 3 Abandon vessel safely**
 - 3.1 Need to abandon vessel is established according to safety management system (SMS) or plan
 - 3.2 Survival craft is launched according to instructions
 - 3.3 Survival craft is checked to ensure it is safe to board
 - 3.4 Survival craft is boarded observing safety of other survivors
 - 3.5 Survival craft is released from abandoned vessel
 - 3.6 Exposure cover is deployed on survival craft according to accepted survival practice and manufacturer instructions
- 4 Apply survival techniques**
 - 4.1 Survival craft is checked for seaworthiness
 - 4.2 Sea anchors and drogues are deployed according to accepted nautical practice
 - 4.3 Occupants are checked for signs of hypothermia or other injuries and first aid is applied as required
 - 4.4 Water and food is rationed
 - 4.5 Lookout for vessels and aircraft in vicinity is maintained and distress signals are released on sighting
 - 4.6 Instructions given by rescue personnel are followed to safely access rescue craft

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.

- | | |
|---|--|
| Survival equipment includes one or more of the following: | <ul style="list-style-type: none">• EPIRBs• flares• immersion suit• life jackets• person overboard combination light and smoke float• search and rescue transponders (SARTs)• survival craft |
| Radio equipment includes one of the following: | <ul style="list-style-type: none">• HF• VHF |
| Survival craft includes one or more of the following: | <ul style="list-style-type: none">• inflatable life raft• life boat• life buoy |
| Rescue craft includes one of the following: | <ul style="list-style-type: none">• another vessel• helicopter |

Unit Mapping Information

This unit replaces and is equivalent to MARF1006A Survive at sea using survival craft.

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 MARF005 Survive at sea using survival craft

Modification History

Release 2. Performance Evidence (PE) amended to include additional activities to better reflect the Performance Criteria. Clarification of guidance information in PE, Knowledge Evidence and Assessment Conditions.

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:

- activation of gas release line to inflate life raft
- applying appropriate handling strategies to manoeuvre survival craft in rough weather and sea conditions
- boarding a life raft unassisted while wearing a lifejacket and assisting others to board
- collecting, managing and interpreting information on the use of lifesaving equipment
- deploy sea anchors and drouges and use paddles
- determining type and extent of emergency
- jumping safely from a height into the water while wearing a life jacket and according to established survival practice
- launching survival craft
- operating radio equipment
- participating in training, musters and emergency drills
- performing calculations to ration food and water
- reading and interpreting instructions for emergency procedures and for use of lifesaving and survival equipment
- recognising and interpreting muster signals
- righting an inverted life raft unassisted while wearing a lifejacket according to established survival practice
- swimming while wearing a lifejacket and floating without a lifejacket according to established survival practice
- using a rescue quoit to assist a person to the life raft

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:

- action to be taken in emergency situations

- emergency muster and abandon vessel signals
- equipment found in survival craft, its function and procedures for correct operation
- established survival practice
- first aid techniques
- importance of being ready for shipboard emergencies
- International Convention for the Safety of Life at Sea (SOLAS) regulations
- location of survival equipment on vessel
- maintenance of lifesaving appliances
- personal protective equipment (PPE):
 - purpose
 - use
- procedures for abandoning vessel
- relevant maritime regulations:
 - relating to required survival equipment on a vessel
 - dealing with survival at sea following vessel abandonment
- relevant work health and safety/occupational health and safety (WHS/OHS) legislation and policies
- steps to be taken after collision, grounding or other marine casualty and resulting hull damage
- standard safety symbols
- survival at sea techniques
- survival craft:
 - construction
 - outfit
 - particular characteristics of different types
- techniques for using survival equipment
- time required to make distress calls safely
- threats to survival on vessel abandonment and appropriate strategies for countering these threats
- use of distress signals and penalty for misuse.

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 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>