



Australian Government

MARF001 Apply basic survival skills in the event of vessel abandonment

Release: 2

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Modification History

Release 2. Range of Conditions amended to better address NSCV requirements. Mapping information has been corrected.

Release 1. New unit of competency.

Application

This unit involves the skills and knowledge required to apply basic survival skills in the event of vessel abandonment.

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 on distress call frequency, if time allows, to communicate the nature of the emergency
 - 1.6 Others are assisted to maximise their chances of survival
- 2 Determine operational safety requirements**
- 2.1 Relevant maritime legislation is identified, accessed and reviewed
 - 2.2 Safety requirements for a range of near coastal vessels are identified, accessed and reviewed
 - 2.3 Lifesaving and survival equipment required on board a near coastal vessel are accurately identified
 - 2.4 Lifesaving equipment on board is checked and confirmed as serviceable
 - 2.5 Lifesaving and survival equipment certificates and documentation are checked for validity
 - 2.6 Vessel safety management systems (SMS) and plans are located, interpreted and applied
- 3 Practise survival techniques**
- 3.1 Typical emergency alarms and types of alarm systems are accurately identified
 - 3.2 Need to abandon vessel is determined according to established safety practice and procedures
 - 3.3 In-water survival techniques are implemented according to established safety practice and procedures
 - 3.4 Threats to survival are identified and treatment options are outlined
- 4 Apply survival techniques**
- 4.1 Lookout for vessels and aircraft is maintained and distress signals are released on sighting
 - 4.2 During an emergency, work is carried out collaboratively with other shipboard personnel and passengers as required
 - 4.3 During emergency and survival situations, appropriate communication skills and techniques are implemented

- 4.4 Instructions given by rescue personnel to safely access rescue craft are followed
- 5 Operate lifesaving and survival equipment**
 - 5.1 Range of pyrotechnic and distress signals are operated according to established safety practice and procedures
 - 5.2 Survival equipment is operated according to instructions and accepted survival practice
 - 5.3 Survival radio equipment is operated according to manufacturer instructions and regulatory protocols
 - 5.4 Lifejackets and other lifesaving equipment are operated and used according to instructions
- 6 Participate in abandon vessel drills**
 - 6.1 Regulatory requirements and company procedures for musters and drills are identified and implemented
 - 6.2 Actions required for a range of muster signals are correctly identified
 - 6.3 Action is taken promptly to address problems that may arise when following vessel abandonment procedures
 - 6.4 Hazards are identified that may occur when abandoning vessel risks are minimised according to SMS, and established safety practice and procedures
 - 6.5 Information relevant to use of lifesaving equipment is accessed and correctly interpreted
 - 6.6 Range of emergencies that may lead to vessel abandonment are outlined

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 must include the following:
- EPIRBs
 - flares
 - life jackets
 - immersion suit
 - person overboard combination light and smoke float
 - search and rescue transponders (SARTs)
 - survival craft
- Radio equipment includes one of the following:
- high frequency (HF)
 - very high frequency (VHF)
- Lifesaving and survival equipment must include the following :
- immersion suit
 - lifebuoy
 - personal floatation devices
- Certificates and documentation must include the following:
- instructions for use of lifesaving equipment
 - pyrotechnic expiry dates
 - record of inspection of equipment
- Emergency alarms must include one or more of the following:
- electronic alarms
 - muster and abandon vessel alarms
 - verbal communication
- In-water survival techniques must include the following:
- floating with or without a lifejacket
 - heat loss techniques
 - swimming with a lifejacket
- Threats to survival include the following:
- dehydration
 - hypothermia
 - ingestion of seawater
- Rescue craft include one of the following:
- another vessel
 - helicopter
- Pyrotechnic and distress
- orange smoke flare

signals include the following:

- red handheld flare

Risks and hazards include the following:

- expired pyrotechnics
- inaccessible lifejackets
- no defined abandon ship procedures established
- poorly maintained equipment

Unit Mapping Information

This unit replaces and is equivalent to MARF1001A Apply basic survival skills in the event of vessel abandonment.

Links

MAR Maritime Training Package Companion Volume Implementation Guide at: -
http://companion_volumes.vetnet.education.gov.au/Pages/TrainingPackage.aspx?pid=22