



**Australian Government**

# **MARF3001A Assist in an emergency response**

**Release 1**

# MARF3001A Assist in an emergency response

## Modification History

Release 1

This is the first release of this unit.

## Unit Descriptor

This unit involves the skills and knowledge required to assist in responding to an emergency or incident and to apply control procedures on a vessel.

## Application of the Unit

This unit applies to the work of an Integrated Rating on a range of vessels.

## Licensing/Regulatory Information

Not applicable.

## Pre-Requisites

Not applicable.

## Employability Skills Information

This unit contains employability skills.

## Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.

Performance criteria describe the required performance needed to demonstrate achievement of the element. Assessment of performance is to be consistent with the evidence guide.

## Elements and Performance Criteria

- |                       |                                                                                                        |
|-----------------------|--------------------------------------------------------------------------------------------------------|
| <b>1 Raise alarms</b> | <b>1.1</b> <i>Emergency or incident</i> is correctly identified according to organisational procedures |
|                       | <b>1.2</b> <i>Distress signals</i> are activated according to manufacturer instructions                |

- and organisational procedures
- 2 Act in an emergency**
- 2.1 Immediate action required is identified and taken, according to emergency procedures
  - 2.2 Safety and security procedures are complied with in all actions
  - 2.3 **Personal protective equipment** is selected and used according to requirements of the situation, work health and safety (WHS)/occupational health and safety (OHS) and emergency procedures
  - 2.4 **Emergency equipment** is selected and used appropriate to the emergency or incident
  - 2.5 Orders are acknowledged and followed
  - 2.6 Allocated duties for emergency situations are performed according to organisational procedures
  - 2.7 Communications are maintained with others to facilitate emergency response process
- 3 Assist others in distress**
- 3.1 Distress signals from others are recognised
  - 3.2 Nature of assistance required is identified
  - 3.3 Capability to safely assist or relay emergency is determined taking into account own safety and physical proximity to emergency or incident
  - 3.4 Appropriate response to emergency or incident is prepared for and implemented
  - 3.5 Communications are maintained with others to facilitate emergency response process
- 4 Monitor environment and incident**
- 4.1 Factors that may create or increase risk of injury or damage are constantly assessed and reported to the Master
  - 4.2 **Measures** taken to relieve an emergency situation are monitored to ensure continued effectiveness
  - 4.3 Changes in conditions and behaviour are identified and reported
- 5 Assist with recovery from emergency or incident**
- 5.1 Evidence relating to cause of emergency or incident is preserved and recorded as far as possible
  - 5.2 Appropriate assistance is provided according to emergency procedures

- 5.3 Emergency equipment is returned to a state of readiness as soon as is reasonably possible
- 5.4 Debriefings are attended and participated in as appropriate

## Required Skills and Knowledge

This section describes the skills and knowledge required for this unit.

### Required Skills:

- Identify, isolate and report faulty or non-operational emergency equipment and distress signals
- Read and follow emergency procedures in real or simulated emergency situations
- Read and interpret basic instructions and standard operating procedures for emergencies
- Recognise routine problems that may occur when operating emergency equipment and distress signals
- Select and use appropriate emergency equipment and distress signals

### Required Knowledge:

- Applicable sections of relevant maritime regulations dealing with emergency equipment and procedures
- Common emergency actions
- Duties and responsibilities of shipboard personnel during emergencies
- Emergency duties and alarm signals
- Functions and purpose of pyrotechnic distress signals, satellite emergency position indicating radio beacons (EPIRBs) and search and rescue transponders (SARTs)
- Identification of pyrotechnic expiry dates
- Procedures for:
  - activation of maritime emergency alarms
  - emergency response on board a vessel
  - testing EPIRBs and SARTs
- Range of safety equipment
- Safety of Life at Sea (SOLAS) Convention and related regulations
- Techniques for avoiding false distress alerts and action to be taken in the event of accidental activation
- Types of emergency incidents and situations
- WHS/OHS requirements and work practices

## Evidence Guide

The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, the required skills and knowledge, the range statement and the Assessment Guidelines for the Training Package.

### **Critical aspects for assessment and evidence required to demonstrate competency in this unit**

The evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the Elements, Performance Criteria, Required Skills, Required Knowledge and include:

- communicating clearly and concisely in an emergency or incident.

### **Context of and specific resources for assessment**

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

Resources for assessment include access to:

- industry-approved marine operations site where operating emergency equipment and applying emergency procedures can be conducted or simulated
- tools, equipment and personal protective equipment currently used in industry
- relevant regulatory and equipment documentation that impacts on work activities
- range of relevant exercises, case studies and/or other simulated practical and knowledge assessments
- appropriate range of relevant operational situations in the workplace.

In both real and simulated environments, access is required to:

- relevant and appropriate materials and equipment
- applicable documentation including workplace procedures, regulations, codes of practice and operation manuals.

### **Method of assessment**

Practical assessment must occur in an:

- appropriately simulated workplace environment and/or
- appropriate range of situations in the workplace.

A range of assessment methods should be used to assess practical skills and knowledge. The following examples are appropriate to this unit:

- direct observation of the candidate operating emergency equipment and applying emergency procedures in real or simulated emergency situations
- direct observation of the candidate applying relevant WHS/OHS requirements and work practices.

### **Guidance information for**

Holistic assessment with other units relevant to the industry

**assessment**

sector, workplace and job role is recommended.

In all cases where practical assessment is used it should be combined with targeted questioning to assess Required Knowledge.

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

## Range Statement

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below.

- |                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Emergency or incident may include:         | <ul style="list-style-type: none"><li>• Anchoring</li><li>• Capsize</li><li>• Contaminated fuel</li><li>• Engine breakdown or malfunction</li><li>• Fire</li><li>• Flooding</li><li>• Fouled propeller</li><li>• Fuel supply system failure</li><li>• Grounding</li><li>• Hypothermia</li><li>• Injuries/illness</li><li>• Person overboard</li><li>• Person retrieval from water</li><li>• Sinking</li><li>• Swamping</li></ul>                                                                                                                                   |
| Distress signals may include:              | <ul style="list-style-type: none"><li>• Dye markers</li><li>• Flags</li><li>• Hand signals</li><li>• Internal public address system</li><li>• Light signals</li><li>• Mobile phone (cautionary note: mobile phones may be limited in their effectiveness)</li><li>• Pyrotechnic distress signals</li><li>• Radio</li><li>• Reflective mirror</li><li>• Satellite emergency position indicating radio beacons (EPIRBs)</li><li>• Search and rescue transponders (SARTs)</li><li>• Ship's whistle</li><li>• Sound signal including voice</li><li>• V-sheet</li></ul> |
| Personal protective equipment may include: | <ul style="list-style-type: none"><li>• Hand protection/gloves</li><li>• Head protection/helmet</li><li>• Foot protection /boots</li><li>• Radiant heat protection/coat</li></ul>                                                                                                                                                                                                                                                                                                                                                                                  |

Emergency equipment may include:

- Battery systems
- Emergency fire pump
- Emergency generator
- Firefighting systems
- Life jackets
- Lifebuoys, lines and lights
- Enhanced lookout activities
- Fire watch
- Measurement of water ingress
- Monitoring distress frequencies
- Monitoring patient recovery

Measures may include:

## **Unit Sector(s)**

Not applicable.

## **Competency Field**

Operational Quality and Safety