



**Australian Government**

# **MARO3002A Contribute to monitoring and controlling a safe navigational watch**

**Release 1**

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## **Modification History**

Release 1

This is the first release of this unit.

## **Unit Descriptor**

This unit involves the skills and knowledge required to contribute to a safe navigational watch on a vessel under instructions from the officer of the watch.

## **Application of the Unit**

This unit applies to those sailing on any vessel in the capacity of an Integrated Rating where navigational watchkeeping duties are to be performed.

## **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 Follow instructions to monitor vessel situation when moored or anchored</b> | <ul style="list-style-type: none"><li>1.1 <i>Scheduled checks and inspections</i> are conducted to comply with instructions</li><li>1.2 Appropriate action is taken in the event of <i>irregularities or abnormal conditions</i> to maximise the safety and integrity of the vessel</li><li>1.3 Restrictions on access within the vessel are enforced according to Master instructions</li><li>1.4 VHF is <i>monitored</i> and information communicated to the Master if appropriate</li><li>1.5 Procedures for the relief, maintenance and handover of a watch are followed</li></ul>                                                                                                                                                                             |
| <b>2 Follow instructions to monitor vessel situation when at sea</b>             | <ul style="list-style-type: none"><li>2.1 Responsibilities of a lookout are identified</li><li>2.2 Proper lookout is maintained by sight and hearing at all times in accordance with instructions</li><li>2.3 Lights, shapes and sound signals are correctly recognised</li><li>2.4 Approximate bearing of a sound signal, light or other object is reported in degrees or points to the officer of the watch</li><li>2.5 Effective communication is maintained with the officer of the watch on matters relevant to the safety and integrity of the vessel</li><li>2.6 VHF is monitored and information communicated to the officer of the watch if appropriate</li><li>2.7 Procedures for the relief, maintenance and handover of a watch are followed</li></ul> |
| <b>3 Respond to potential emergency situations</b>                               | <ul style="list-style-type: none"><li>3.1 <i>Emergency situations</i> are promptly reported to the officer of the watch</li><li>3.2 <i>Distress signals</i> are recognised and reported</li><li>3.3 False distress alerts are avoided and correct action is taken in the event of accidental activation</li><li>3.4 Integrity of emergency and distress alerting systems is maintained at all times</li></ul>                                                                                                                                                                                                                                                                                                                                                      |

## Required Skills and Knowledge

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

### Required Skills:

- Communicate effectively with officer of the watch on matters relevant to watchkeeping duties
- Conform to established procedures and practices in taking initial action on becoming aware of the emergency or abnormal situation
- Correctly report other ships, objects lights and navigation marks in relation to the ships head
- Identify and report lights, buoys and sound signals
- Monitor and anticipate hazards and risks that may arise during watchkeeping duties
- Monitor VHF equipment
- Recognise potential hazards, assess and report risks to the officer of the watch
- Respond to orders given by the officer of the watch
- Use internal communications and alarm systems

### Required Knowledge:

- Emergency duties and alarm signals
- Information required to maintain a safe watch
- International Regulations for Preventing Collisions at Sea
- Navigation lights and shapes and sound signals
- Order as they relate to watchkeeping
- Procedures for the relief, maintenance and handover of a watch
- Pyrotechnic distress signals, satellite emergency position indicating radio beacons (EPIRBs) and search and rescue transponders (SARTs)
- Shipboard terms and definitions
- Typical emergency situations and appropriate action and solutions
- Work health and safety (WHS)/occupational health and safety (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 and acknowledging orders in a seamanlike manner
- seeking advice/clarification from the officer of the watch where watch information or instructions are not clearly understood
- conforming to accepted practices and procedures in the maintenance, handover and relief of the watch.

**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 contributing to monitoring and controlling a safe navigational watch can be conducted
- 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 contributing to monitoring and controlling a safe navigational watch
- direct observation of the candidate applying relevant WHS/OHS requirements and work practices.

**Guidance information for assessment**

Holistic assessment with other units relevant to the industry 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.

- |                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Scheduled checks and inspections may include:      | <ul style="list-style-type: none"><li>• Coverage</li><li>• Frequency</li><li>• Timing</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Irregularities or abnormal conditions may include: | <ul style="list-style-type: none"><li>• Events affecting the safety and integrity of:<ul style="list-style-type: none"><li>• vessel</li><li>• crew</li><li>• equipment</li><li>• materials such as cargo</li></ul></li></ul>                                                                                                                                                                                                                                                                                                                                                                             |
| Monitored may include:                             | <ul style="list-style-type: none"><li>• Communications with other vessels</li><li>• Communications with those onshore</li><li>• Weather reports and warnings</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Emergency situations may include:                  | <ul style="list-style-type: none"><li>• Cargo shift</li><li>• Collision</li><li>• Dragging anchor</li><li>• Failure of vessel equipment and navigational lights</li><li>• Fire, including engine room scavenge fires</li><li>• Fog or restricted visibility</li><li>• Heavy weather</li><li>• Loss of:<ul style="list-style-type: none"><li>• engine or propulsion controls</li><li>• watertight integrity</li><li>• mooring lines</li></ul></li><li>• Person overboard</li><li>• Reception of distress signal</li><li>• Stranding</li><li>• Sudden list or loll</li><li>• Synchronous rolling</li></ul> |
| Distress signals must include:                     | <ul style="list-style-type: none"><li>• Pyrotechnic distress signals</li><li>• SARTs</li><li>• Satellite EPIRBs</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## **Unit Sector(s)**

Not applicable.

## **Competency Field**

Watchkeeping