



**Australian Government**

# **MARN020 Manage seaworthiness of a vessel up to 100 metres**

**Release: 1**

# MARN020 Manage seaworthiness of a vessel up to 100 metres

## Modification History

**Release 1.** This is the first release of this unit of competency in the MAR Maritime Training Package.

## Application

This unit involves the skills and knowledge required to manage vessel in a seaworthy condition for all stages of a voyage or operation being undertaken.

This unit applies to people working in the maritime industry in the capacity of Master up to 45 metres Near Coastal.

It includes supervising weather tight and watertight integrity of vessel, taking actions to meet changed sea and weather conditions and maintaining records.

### Licensing/Regulatory Information

Legislative and regulatory requirements are applicable to this unit.

This unit is one of the requirements to obtain Australian Maritime Safety Authority (AMSA) certification as a Master up to 45 metres Near Coastal and a Mate up to 100 metres Near Coastal, as specified in Marine Order 505.

Seafarers seeking certification should check with AMSA.

## Pre-requisite Unit

Not applicable.

## Competency Field

N – Seamanship

## Unit Sector

Not applicable.

## Elements and Performance Criteria

### ELEMENTS

### PERFORMANCE CRITERIA

Elements describe the essential Performance criteria describe the performance needed to

outcomes.

demonstrate achievement of the element.

**1 Supervise weather tight and watertight integrity of vessel**

- 1.1** Principal structural components of vessel are identified from vessel drawings to understand the function of these components in relation to conventional vessel design
- 1.2** Pumping and pipeline systems of vessel are investigated to establish survivability of vessel in case of flooding and damage control
- 1.3** Procedures for maintaining weather tight and watertight integrity of vessel are interpreted and implemented according to vessel safety management plan and regulations
- 1.4** Crew are instructed on requirements of plan and their responsibilities
- 1.5** Actions are instigated to confirm weather tight and watertight integrity of vessel at all times

**2 Take action to meet changed sea and weather conditions**

- 2.1** Weather forecasts and observations of sea and weather conditions are used to predict situations that may jeopardise vessel weather tight and watertight integrity
- 2.2** Effect of severe wind and rolling in associated sea conditions on vessel weather tight and watertight integrity is recognised
- 2.3** Effect of water on deck on vessel weather tight and watertight integrity is ascertained
- 2.4** Appropriate action is taken to maintain vessel weather tight and watertight integrity according to organisational procedures

**3 Maintain records**

- 3.1** Relevant documents and records are completed and maintained, as required, according to regulatory and organisational requirements
- 3.2** Relevant documents are sent to appropriate bodies and copies are filed according to regulatory and organisational requirements
- 3.3** Documents are stored according to regulatory and organisational requirements

## 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.

## Unit Mapping Information

This unit replaces and is equivalent to MARN013 Manage seaworthiness of a vessel up to 80 metres.

## Links

Companion Volume Implementation Guides are found in VETNet -

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