



Australian Government

MARN004 Manage seaworthiness of a vessel up to 80 metres

Release: 1

MARN004 Manage seaworthiness of a vessel up to 80 metres

Modification History

Release 1. New unit of competency.

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 on a range of vessels up to 80 metres.

This unit has links to legislative and certification requirements.

Pre-requisite Unit

Not applicable.

Competency Field

N – Seamanship

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 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

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| | 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

This section describes those language, literacy, numeracy and employment skills that are essential to performance.

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Specifies different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included.

Range is restricted to essential operating conditions and any other variables essential to the work

environment.

Structural components must include:	• design characteristics attributing to watertight integrity • principal components of vessel structure • structural arrangements to restrain fires • watertight and collision bulkheads
Actions include one or more of the following:	• closing openings • ensuring passenger distribution does not exceed allowed limits • ensuring stores, cargo and equipment are properly stowed and lashed • establishing procedures for restoring or managing weather tight and watertight integrity during an emergency • maintaining stability condition within approved limits • methods for testing tanks and other watertight openings
Relevant documents and records include one or more of the following:	• deck and official logbook entries • notes of protest • safety management plan

Unit Mapping Information

This is a new unit. This unit is equivalent to MARN4001A 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>