



Australian Government

MARN011 Maintain seaworthiness of the ship (ship construction)

Release: 1

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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 maintain the seaworthiness of the ship with regard to ship construction, inspection and reporting of defects and damage to ship cargo spaces, hatch covers and ballast tanks.

This unit applies to people working in the maritime industry in the capacity of:

- Master of a commercial vessel less than 80 metres in length within the exclusive economic zone (EEZ)
- Master of a commercial vessel less than 500 gross tonnage (GT)
- Watchkeeper Deck.

Licensing/Regulatory Information

Legislative and regulatory requirements are applicable to this unit.

- Regulatory requirements include STCW International Maritime Organization (IMO) model course competencies and areas of knowledge, understanding and proficiency, together with the estimated total hours required for lectures and practical exercises. Teaching staff should note that timings are suggestions only and should be adapted to suit individual groups of trainees depending on their experience, ability, equipment and staff available for training.

Near Coastal Qualifications:

- This unit is one of the requirements to obtain Australian Maritime Safety Authority (AMSA) certification as a Master less than 80 metres Near Coastal as defined in the Marine Order 505 (Certificates of competency - National Law) 2013.

Blue Waters Qualifications:

- This unit is one of the requirements to obtain Australian Maritime Safety Authority (AMSA) certification as a Master of a commercial vessel less than 500 gross tonnage (GT) or Watchkeeper Deck and to meet regulatory requirements this unit must be delivered consistent with Marine Orders and with the relevant sections of the International Convention on Standards of Training, Certification and Watchkeeping for Seafarers (STCW).

Pre-requisite Unit

Not applicable.

Competency Field

N – Seamanship

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

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| 1 Check weather tight and watertight integrity of ship | 1.1 Inspections of ship are planned and carried out according to regulatory and organisational requirements |
| | 1.2 Elements of the vessel structure critical to the safety of the vessel are identified |
| | 1.3 Structural members of ship are inspected to establish weather tight and watertight requirements of ship |
| | 1.4 Checks are carried out to confirm weather tight and watertight integrity of ship at all times |
| 2 Take action to meet environmental changes | 2.1 Anticipated sea and weather conditions are analysed to identify situations that may impact on ship weather tight and watertight integrity |
| | 2.2 Effect of severe wind and rolling in associated sea conditions on ship weather tight and watertight integrity is recognised |
| | 2.3 Effect of water on deck, on ship weather tight and watertight integrity is ascertained and taken into consideration |
| | 2.4 Appropriate action is taken to maintain ship weather tight and watertight integrity according to organisational procedures and damage control plans |
| | 2.5 Degree to which vessel is secured is appropriate to prevailing and forecast conditions |

- 2.6** Location of defects and damage caused by vessel operations and the environment are ascertained
 - 2.7** Defects and damage to ship are identified, rectified and reported according to organisational procedures
 - 2.8** Irregularities beyond own ability to rectify are recognised in time to enable remedial action to be taken
- 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 MARN005 Maintain seaworthiness of a vessel.

Links

Companion Volume implementation guide can be found in VetNet -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=772efb7b-4cce-47fe-9bbd-ee3b1d1eb4c2>