



**Australian Government**

# **MARJ004 Inspect and report defects and damage to vessel**

**Release: 1**

# MARJ004 Inspect and report defects and damage to vessel

## Modification History

Release 1. New unit of competency.

## Application

This unit involves the skills and knowledge required to inspect and report defects and damage to vessels.

This unit applies to a Watchkeeper Deck, Master up to 500 gross tonnage (GT) and Master up to 80 metres Near Coastal.

This unit has links to legislative and certification requirements.

## Pre-requisite Unit

Not applicable.

## Competency Field

J – Environment

## 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.

- |                           |   |
|---------------------------|---|
| <b>1 Plan inspections</b> | <b>1.1</b> Elements of the vessel structure critical to the safety of the vessel are identified           |
|                           | <b>1.2</b> Location of defects and damage caused by vessel operations and the environment are ascertained |
|                           | <b>1.3</b> Parts of the vessel to be inspected for defects and damage are identified                      |
|                           | <b>1.4</b> Inspections are scheduled to ensure all parts are covered within a given time                  |
|                           | <b>1.5</b> Damage control plan is developed to ensure the seaworthiness of the vessel                     |

- |   |   |     |   |     |   |     |  |     |   |     |   |
|---|---|-----|---|-----|---|-----|--|-----|---|-----|---|
| <b>2 Check condition of vessel in normal and emergency situations</b> | <table border="0"><tr><td style="vertical-align: top;">2.1</td><td>Organisational procedures for coverage and frequency of tests and inspections on the vessel are complied with</td></tr><tr><td style="vertical-align: top;">2.2</td><td>Watertight integrity is checked and appropriate action is taken to prepare for prevailing and forecast weather and sea conditions</td></tr><tr><td style="vertical-align: top;">2.3</td><td>Degree to which vessel is secured is appropriate to prevailing and forecast conditions</td></tr><tr><td style="vertical-align: top;">2.4</td><td>Defects and damage are reliably detected and appropriate action is taken to rectify the situation</td></tr><tr><td style="vertical-align: top;">2.5</td><td>Irregularities beyond own ability to rectify are recognised in time to enable remedial action to be taken</td></tr></table> | 2.1 | Organisational procedures for coverage and frequency of tests and inspections on the vessel are complied with | 2.2 | Watertight integrity is checked and appropriate action is taken to prepare for prevailing and forecast weather and sea conditions | 2.3 | Degree to which vessel is secured is appropriate to prevailing and forecast conditions | 2.4 | Defects and damage are reliably detected and appropriate action is taken to rectify the situation | 2.5 | Irregularities beyond own ability to rectify are recognised in time to enable remedial action to be taken |
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| <b>3 Prepare reports</b>  | <table border="0"><tr><td style="vertical-align: top;">3.1</td><td>Reports are completed and maintained as required according to regulatory and organisational requirements</td></tr><tr><td style="vertical-align: top;">3.2</td><td>Relevant reports are sent to appropriate bodies and copies are filed according to regulatory and organisational requirements</td></tr><tr><td style="vertical-align: top;">3.3</td><td>Documents are stored according to regulatory and organisational requirements</td></tr></table>   | 3.1 | Reports are completed and maintained as required according to regulatory and organisational requirements      | 3.2 | Relevant reports 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           |     |   |     |   |
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## 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.

Elements of the vessel

- ballast tanks

structure include one or more of the following:

- bulkheads
- cargo holds
- cargo tanks
- frames
- fresh water tanks

Defects and damage include one or more of the following:

- cargo operation damage
- damage to structures through heavy weather
- damage caused by corrosion
- defects to ballast water tank vents

Vessel operations and the environment include one or more of the following:

- loading and unloading operations
- severe weather conditions

Parts of the vessel include one or more of the following:

- cargo holds
- deck structures
- hatch covers
- machinery spaces
- ventilators and fire closing devices

Coverage includes one or more of the following:

- areas requiring inspection under the planned maintenance schedule and survey requirements

Reports include one or more of the following:

- defects and damage reports to management
- inspection records
- maintenance reports
- survey reports

## Unit Mapping Information

This is a new unit. This unit is equivalent to MARJ5002A Inspect and report defects and damage to vessel.

## Links

Companion Volume implementation guides are found in VETNet -

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