



Australian Government

Assessment Requirements for MARJ004 Inspect and report defects and damage to vessel

Release: 1

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Modification History

Release 1. New unit of competency.

Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria on at least one occasion and include:

- adhering to procedures to distinguish between normal and defective or damaged parts of vessel
- developing damage control plans
- developing effective planning documents
- identifying those elements of the vessel structure that are critical to vessel safety
- inspecting and reporting defects and damage to cargo spaces, hatch covers and ballast tanks
- interpreting and following procedures for the coordination of planned maintenance processes
- preparing appropriate reports on inspection and maintenance outcomes.

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria and include knowledge of:

- causes of corrosion to cargo spaces and ballast tanks, and how corrosion can be identified and prevented
- construction, layout and subdivision of a vessel, including freeboard and bulkhead deck, watertight compartments, weather tight compartments, the bulkhead of the vessel and collision bulkhead
- corrosion control measures
- damage control measures that may be required to maintain the integrity of a hull in a range of typical emergency situations
- how to ensure reliable detection of defects and damages
- own ability and limits to rectify irregularities and faults
- parts of the vessel to be inspected each time in order to cover all parts within a given period
- planned maintenance systems for vessel and associated maintenance inspection procedures
- principal features of vessel structure
- principal stresses that act on vessel structure

- principles and procedures to ensure watertight integrity of vessel hull in both normal and emergency situations
- procedures for checking and inspecting vessel seaworthiness
- properties and application of materials used to construct vessels
- purpose of the enhanced survey program
- typical vessel construction features and stress characteristics
- where to look for damage and defects most commonly encountered due to loading and unloading operations, corrosion, severe weather conditions
- work health and safety (WHS)/occupational health and safety (OHS) requirements and work practices

Assessment Conditions

Assessors must satisfy National Vocational Education and Training Regulator (NVR)/Australian Quality Training Framework (AQTF) assessor requirements.

Assessment must occur in workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in simulated workplace operational situations that reflect workplace conditions.

Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Resources for assessment must include access to:

- tools, equipment, machinery, materials and personal protective equipment currently used in industry
- applicable documentation such as legislation, regulations, codes of practice, workplace procedures and operational manuals
- range of relevant exercises, case studies and/or simulations.

Links

Companion Volume implementation guides are found in VETNet -

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