



Australian Government

Assessment Requirements for MARL022 Demonstrate basic knowledge of ship construction

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, performance criteria and range of conditions on at least one occasion and include:

- accessing online information on ship construction
- applying relevant work health and safety/occupational health and safety (WHS/OHS) requirements and work practices
- assessing own work outcomes and maintaining knowledge of current codes, standards, regulations and industry practices
- identifying and determining appropriate ways of responding to problems associated with ship construction
- identifying relevant methods and procedures such as procedures for painting commercial vessels
- identifying, interpreting and processing numerical and graphical information related to ship construction
- imparting knowledge and ideas through verbal, written and visual means
- providing accurate and reliable information and appropriate level of detail
- reading and interpreting technical guides, manuals and information relevant to ship construction.

Knowledge Evidence

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

- bottom structure and the forepeak and afterpeak of vessels
- bow and stern forces
- basic concepts of ship construction
- construction of watertight bulkheads
- damage criteria
- deck and frame construction
- materials used in the construction of ship hull

- methods of joining shipbuilding materials
- processes involved in painting a vessel
- stabilisers to reduce the effect of rolling
- static and dynamic forces and moments exerted on hull of vessel
- terms used to describe size, shape and structural components of vessels
- types of ships and key features of ships
- vessel ventilation systems
- watertight integrity
- weather tight integrity
- WHS/OHS legislation and policies.

Assessment Conditions

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

Assessment must satisfy the National Vocational Education and Training Regulator (NVR)/Australian Quality Training Framework (AQTF) standards.

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.

Assessment must occur in workplace operational situations or where these are not available, in simulated workplace operational situations or an industry-approved marine operations site that replicates workplace conditions where basic knowledge of ship construction can be demonstrated.

Resources for assessment include access to:

- applicable documentation including workplace procedures, regulations, codes of practice and operation manuals
- appropriate range of relevant operational situations in the workplace
- technical reference library with current publications on commercial shipping
- tools, equipment, materials and personal protective equipment currently used in industry.

Performance should be demonstrated consistently over time and in a suitable range of contexts.

Links

Companion Volume implementation guides are found in VETNet -

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