



Australian Government

Assessment Requirements for MARL023

Demonstrate basic knowledge of ship operation and maintenance

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 information required to undertake duties in routine and emergency situations
- 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
- ensuring currency of relevant legislative and regulatory knowledge
- identifying and determining appropriate ways of responding to malfunctions and emergency situations in daily operations
- identifying methods and procedures needed to implement dry-docking and other duties on commercial vessels
- identifying, interpreting and processing numerical and graphical information required to undertake duties in routine and emergency situations
- imparting knowledge and ideas through verbal, written and visual means
- planning and organising resources needed to establish and maintain safety management systems on a tanker or gas carrier
- reading and interpreting written instructions, procedures and information relevant to duties of a Marine Engineer Class 2.

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:

- centre of gravity
- classification societies
- dry-dock and in-water bottom surveys
- enclosed spaces
- flag State responsibilities
- IMDG code
- inert gas system for tankers
- key international and Australian standards relating to shipping
- key shipping authorities and organisations
- maintenance and repairs of lifting and life saving equipment
- maintenance and repairs of hull, pumping systems, propellers, machinery and other items satisfying maintenance of class
- maintenance, repair and safe working practices associated with lifting and life saving equipment
- maritime communication techniques
- Port State Control
- regulatory environment for shipping operations
- relevant sections of maritime regulations, codes and conventions related to tankers and gas carriers
- safety of life at sea (SOLAS)
- survey requirements
- terminology relating to the structure, capacities and operations of various types of tankers and gas carriers
- types of ships and key features of ships
- vessel stability
- 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 operation and maintenance 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 ship operation and maintenance
- 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>