



Australian Government

Assessment Requirements for MARM007 Assist in the survey of vessel mechanical features

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:

- applying relevant work health and safety/occupational health and safety (WHS/OHS) requirements and work practices
- applying risk management and risk minimisation techniques
- communicating effectively verbally and in writing
- developing effective and detailed planning documents
- ensuring behaviour reflects relevant current legislative and regulatory requirements
- identifying and following all safety procedures and precautions
- providing high quality reports
- reading and interpreting safety data sheets/material safety data sheets (SDSs/MSDSs) accurately
- reading and interpreting:
 - instructions for auxiliary machinery and systems to be tested
 - machinery performance readings and indications
- recognising and reporting:
 - faulty equipment on vessels to be inspected
 - routine problems that relate to auxiliary machinery and systems on domestic commercial vessels.

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:

- battery types, care, maintenance
- commercial vessel classifications and survey requirements for various operational systems, and their components
- compatibility and durability of construction materials
- construction and layout of a typical vessel including layouts for pipework, propulsion system and installed machinery
- environmental controls and regulations for primary, secondary or ancillary systems and their components
- ethical behaviour and industry codes of practice
- features and characteristics of typical faults and signs of deterioration in operational systems and components
- features of different engine types and sizes
- forms, causes and prevention of corrosion in a marine environment
- insurance, liability and professional indemnity requirements for self and others
- interaction of vessel structures and mechanical systems
- maintaining watertight integrity
- National Standard for Commercial Vessels (NSCV) and National Standard for the Administration of Marine Safety (NSAMS)
- operational characteristics and performance specifications for different types of marine internal combustion engines and propulsion machinery usually found on vessels
- principal features of fittings and machinery found on typical vessels and characteristics of engine/plant and ancillary equipment
- procedures for:
 - checking connection, installation and mounting of machinery and components
 - reading and interpreting machinery performance readings and indications
- purpose and content of SDSs/MSDSs
- report writing requirements for a range of different survey tasks
- safety, environmental and hazard control precautions and procedures relevant to checking and basic maintenance of fittings and machinery
- typical problems related to inspecting and maintaining operational and navigational systems
- typical vessel and machinery specifications, operating manuals and specifications
- WHS/OHS legislation, policies and procedures.

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 assisting in the survey of vessels mechanical features can be conducted.

Resources for assessment include access to:

- relevant documentation including workplace procedures, regulations, codes of practice and operation manuals
- tools, equipment 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>