



Australian Government

Assessment Requirements for MARC008 Manage fuel systems

Release: 2

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Modification History

Release 2. Performance Evidence and Knowledge Evidence amended to include correct information.

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:

- carrying out accurate and reliable calculations dealing with bunkering capacity, consumption of fuel, speed and range of vessel
- completing required records
- managing refuelling to ensure safety of operation and avoid pollution of marine environment
- measuring tank levels
- reading and interpreting manufacturer specifications and safety data sheets (SDS)/material safety data sheets (MSDS)
- recognising faulty equipment and taking appropriate action
- recognising problems and hazards during refuelling and fuel transfer operations, and taking appropriate action
- selecting and using relevant equipment required for refuelling and fuel transfer operations
- taking appropriate action in response to an accidental spillage or safety incident during refuelling and fuel transfer operations.

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:

- arrangement of fuel oil systems
- calculations involving specific fuel consumption, speed and range
- calculations of volumes
- condensation in fuel tanks
- conversion of volumes to litres
- effect of slack tanks on vessel stability
- environmental protection measures to be applied during refuelling or transfer operations
- fuel oil tank components
- fuel tank filling
- functions and responsibilities of crew during refuelling or transfer operations
- hazards and safety precautions to be observed during refuelling or transfer operations
- methods of fuel oil tank content measurement
- refuelling and fuel transfer procedures applying to commercial vessels
- specific fuel consumption
- specific gravity
- work health and safety (WHS)/occupational health and safety (OHS) and pollution control, legislation and policies.

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

MAR Maritime Training Package Companion Volume Implementation Guide at: -
http://companion_volumes.vetnet.education.gov.au/Pages/TrainingPackage.aspx?pid=22