



Australian Government

MARB022 Refuel a vessel

Release: 1

MARB022 Refuel a vessel

Modification History

Release 1. This is the first release of this unit of competency in the MAR Maritime Training Package Release 3.0.

Application

This unit involves the skills and knowledge required to apply safe work practices when refuelling vessels in a marina, including conducting pre-operational checks and completing post-refuelling operations and refuelling documentation.

This unit applies to marina operators who refuel vessels in a marina and on water.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Not applicable.

Competency Field

B – Equipment Checking and Maintenance

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS	PERFORMANCE CRITERIA
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1 Plan vessel refuelling	1.1 Dangers of volatile fuel liquids and vapours are established and recorded 1.2 Precautions for minimising risks associated with volatile liquids are identified and recorded 1.3 Safety and environmental requirements for refuelling vessel are identified and recorded 1.4 Fuel is selected based on vessel use and manufacturer requirements

- 1.5 Procedures for refuelling are identified and followed established according to workplace procedures and relevant regulations and standards
- 2 Prepare for refuelling**
 - 2.1 Personal protection is identified, accessed and used
 - 2.2 Firefighting and spill response equipment is located and checked, faulty equipment is replaced and faults are reported
 - 2.3 Refuelling equipment is checked and secured according to workplace procedures
 - 2.4 Vessel is positioned and secured for refuelling
 - 2.5 Tank valves are opened as necessary
- 3 Refuel vessel**
 - 3.1 Safety and environmental requirements for refuelling vessel are applied
 - 3.2 Vessel is refuelled according to workplace procedures, and relevant regulations and standards
 - 3.3 Workplace procedures are followed to contain spill and minimise environment or safety dangers
 - 3.4 Fuel levels are checked and if acceptable, refuelling is completed
- 4 Complete refuelling**
 - 4.1 Refuelling equipment is cleaned and stowed according to workplace procedures
 - 4.2 Spillage is cleaned up according to workplace procedures
 - 4.3 Required documentation is completed according to workplace procedures

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Spill containment includes:

- absorbing materials
- containment booms and portable bunding

Fuels include one or more of the following:

- diesel (distillate)
- kerosene
- liquefied petroleum gas (LPG)
- methylated spirits
- petrol (gasoline) including premixed two stroke fuel

Unit Mapping Information

No equivalent unit.

Links

Companion Volume implementation guides are found in VETNet -

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

Assessment Requirements for MARB022 Refuel a vessel

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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 (WHS)/occupational health and safety (OHS) requirements and safe work practices
- checking for and activating ventilation devices
- checking fuel levels
- completing documentation for refuelling activities
- completing vessel refuelling in a consistent and timely way
- complying with environmental procedures and response plans
- identifying and checking firefighting equipment
- identifying correct fuel for the application
- implementing the requirements, procedures and techniques for the safe, effective and efficient refuelling of vessels
- interpreting HAZCHEM (or similar) requirements
- locating, reading and applying relevant documentation, policies and procedures
- refilling fuel containers and tanks
- selecting and fitting appropriate personal protective equipment.

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:

- correct handling of gas cylinders
- different fuels and their applications
- emergency procedures
- emergency situations and environmental issues
- hazards associated with refuelling a vessel
- HAZCHEM symbols and implications for safe work
- location and use of safety alarms, emergency shut-off systems, emergency communications systems
- location and selection of firefighting equipment/appliances and emergency escape routes
- processes and procedures for dealing with spills
- personal and environmental dangers associated with fuels and refuelling/filling
- personal protective equipment associated with fuels
- risks associated with refuelling vessels and related precautions to control the risk
- recording and reporting procedures in regard to unsafe situations, fire hazards, broken or damaged equipment or fittings, sickness and accidents or incidents
- techniques for handling hazardous materials and substances
- techniques used for reducing vapours
- WHS/ OHS requirements and safe work practices.

Assessment Conditions

As a minimum, assessors must satisfy applicable regulatory requirements, which include requirements in the Standards for Registered Training Organisations, current at the time of assessment.

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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 a fully operational marina or, where this is not available, in simulated workplace operational situations that reflect workplace conditions where refuelling vessels can be applied.

Resources for assessment include:

- dedicated tools and equipment, materials and parts currently used in industry including:
 - masks or respirators
 - goggles/face shields
 - gloves and appropriate clothing
- applicable documentation including workplace procedures, regulations, codes of practice and operation manuals.
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