



Australian Government

MARB058 Refuel a vessel

Release: 1

MARB058 Refuel a vessel

Modification History

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

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.

This unit applies to individuals who provide assistance under supervision in the operational management of the marina.

Licensing/Regulatory Information

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

Elements describe the essential outcomes.

1 Plan vessel 1.1

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

Dangers of hazardous chemicals

refuelling			and vapours are established and recorded according to workplace policies, procedures and HAZCHEM requirements
		1.2	Precautions for minimising risks associated with volatile liquids are identified and recorded according to workplace policies, procedures and HAZCHEM requirements
		1.3	Safety and environmental requirements for refuelling vessel are identified and recorded according to workplace policies and procedures
		1.4	Fuel type is selected according to the vessel operators' instructions
		1.5	Pump is identified and selected according to the fuel type and vessel operators' instructions
		1.6	Procedures for refuelling are identified and followed according to workplace policies, procedures, relevant regulations and standards
		1.7	Emergency plan is accessed, reviewed and clarified with appropriate personnel
2	Prepare for refuelling	2.1	Personal protective equipment (PPE) is identified, accessed and used according to workplace policies and procedures
		2.2	Firefighting and spill response equipment is located and checked, faulty and/or used equipment is replaced and faults are reported as required according to workplace policies, procedures and supervisor instructions
		2.3	Refuelling equipment is checked and secured according to workplace policies, procedures

			and supervisor instructions
		2.4	Vessel is positioned and secured for refuelling according to workplace policies, procedures and supervisor instructions
		2.5	Tank valves are opened as required, according to workplace policies, procedures and supervisor instructions
3	Refuel vessel	3.1	Safety and environmental requirements for refuelling vessel are applied according to workplace policies, procedures and supervisor instructions
		3.2	Vessel is refuelled according to workplace policies, procedures, supervisor instructions and relevant regulations and standards
		3.3	Workplace policies, procedures and supervisor instructions are followed to contain spill and minimise environment or safety dangers as required
		3.4	Communication is maintained with relevant personnel to ensure the safety and integrity of vessel and/or crew during vessel refuelling
		3.5	Incidents which occur during vessel refuelling are responded to according to workplace policies, procedures and supervisor instructions
4	Complete refuelling	4.1	Refuelling equipment is cleaned and stowed according to workplace policies and procedures
		4.2	Spillage response is carried out according to workplace procedures and regulatory requirements

4.3

Required documentation is completed according to workplace policies and 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.

Non-essential conditions can be found in the MAR Maritime Training Package Companion Volume Implementation Guide.

Spill containment includes:

- absorbing materials
- containment booms and portable bunding

Fuels include one or more of the following:

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

Unit Mapping Information

This unit replaces and is not equivalent to MARB022 Refuel a vessel

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 MARB058 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, workplace policies, procedures 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
- following supervisor instructions
- following workplace policies and procedures
- identifying and checking firefighting and spillage equipment are available and in operational condition
- 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 (PPE) for safe work practices.

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:

- different fuels and their applications
- emergency procedures
- emergency situations and environmental issues
- hazards associated with refuelling a vessel
- HAZCHEM requirements, symbols, signage and implications for safe work
- location and use of safety alarms, emergency shut-off systems and emergency

- communications systems
- location and selection of firefighting and spillage equipment and emergency escape routes
- processes and procedures for dealing with spills
- personal and environmental dangers associated with fuels and refuelling/filling
- PPE associated with fuels
- risks associated with refuelling vessels and related precautions to control the risk
- recording and reporting procedures regarding, unsafe situations, fire hazards, broken or damaged equipment or fittings, sickness and accidents or incidents
- safe handling and stowage of flammable and explosive materials
- techniques for handling hazardous materials and substances, including the use of blower pumps
- techniques used for reducing vapours
- WHS/OHS requirements and safe work practices, including workplace policies and procedures.

Assessment Conditions

Assessors must hold credentials specified within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must satisfy the Principles of Assessment and Rules of Evidence and all regulatory requirements included within the Standards for Registered Training Organisations current at the time of assessment.

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, where this is not appropriate, assessment must occur in simulated workplace operational situations that replicate workplace conditions.

Resources for assessment must include access to:

- applicable documentation such as workplace policies and procedures, regulations, codes of practice and operation manuals
- tools, equipment, machinery, materials, and relevant PPE currently used in industry.

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