



**Australian Government**

# **MARB041 Manage refuelling**

**Release: 2**

# MARB041 Manage refuelling

## Modification History

**Release 2.** This is the second release of this unit of competency in the MAR Maritime Training Package.

- Minor statement changes in unit Application
- Minor changes to Performance Evidence
- Minor change to Knowledge Evidence
- Minor statement changes in Assessment Conditions.

**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 manage refuelling and fuel transfer operations.

This includes planning refuelling or fuel transfer operations, preparing vessel for refuelling or fuel transfer operations, completing refuelling operations and managing an emergency.

This unit of competency applies to people working in the maritime industry in the capacity of: Marine Engine Driver Grade 1 Near Coastal

### Licensing/Regulatory Information

Legislative and regulatory requirements are applicable to this unit.

This unit is one of the requirements to obtain Australian Maritime Safety Authority (AMSA) certification as a Marine Engine Driver Grade 1 Near Coastal as specified in Marine Order 505.

Seafarers seeking certification should check with AMSA

## 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 refuelling or fuel transfer operations**

### PERFORMANCE CRITERIA

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

- 1.1** Fuel tanks are dipped to establish current level of fuel
- 1.2** Fuel is ordered according to organisational procedures
- 1.3** Amount and positioning of fuel onboard vessel is calculated with reference to tank tables
- 1.4** Impact of refuelling on safety and operation of vessel is determined and appropriate strategies are implemented
- 1.5** Local port authorities are informed of vessel location for bunkering operations and duration of bunkering
- 2 Prepare vessel for refuelling or fuel transfer operations**
  - 2.1** Vessel is positioned and secured for refuelling
  - 2.2** All personal protective equipment (PPE) is accessed and used
  - 2.3** Bunkering equipment is correctly deployed according to organisational procedures
  - 2.4** Safety zone for refuelling process is established and maintained for full duration of operation
  - 2.5** Procedures for refuelling are established with bunker operator and completed lists are checked according to organisation and safety management system (SMS) requirements
  - 2.6** Bunker hose is securely connected to vessel fuel manifold
  - 2.7** Tank valves are opened, as necessary, and refuelling operations are performed safely according to SMS and regulatory requirements
  - 2.8** Tanks are dipped to ensure correct amount of fuel has been received
  - 2.9** Fuel samples are taken to check quality of fuel received

- and appropriate action is taken if fuel sample is not to specification
- |                                         |                                                                                                                                                                        |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>3 Complete refuelling operations</b> | <b>3.1</b> Shutdown procedures are conducted according to organisational procedures                                                                                    |
|                                         | <b>3.2</b> Malfunctions, faults, irregular performance or damage to refuelling equipment are recorded and repairs are organised according to organisational procedures |
|                                         | <b>3.3</b> Refuelling equipment is maintained and secured according to organisational procedures                                                                       |
|                                         | <b>3.4</b> Refuelling records are completed according to organisational procedures and regulatory requirements                                                         |
| <b>4 Manage an emergency</b>            | <b>4.1</b> Appropriate response is made to an emergency situation according to organisational procedures                                                               |
|                                         | <b>4.2</b> Safety zone is closed off and isolated according to organisational procedures                                                                               |
|                                         | <b>4.3</b> All persons in the safety zone are correctly notified and their activities are managed to ensure safety according to organisational procedures              |
|                                         | <b>4.4</b> Appropriate authorities are notified and actions are taken as directed according to emergency procedures and regulatory requirements                        |
|                                         | <b>4.5</b> Documentation of emergency is completed according to organisational procedures and relevant maritime authority                                              |

## 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.

## Unit Mapping Information

This unit replaces and is equivalent to MARB009 Manage refuelling.

## Links

Companion Volume Implementation Guides are found in VETNet -

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