



Australian Government

MARC040 Manage fuel systems

Release: 2

MARC040 Manage fuel systems

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 statement changes in Assessment Conditions.

Release 1. New unit of competency. Licensing/regulatory information has been incorporated in accordance with Regulatory requirements. Assessment Requirements have been strengthened in accordance with Regulatory requirements.

Application

This unit involves the skills and knowledge required to manage the fuel and fuel oil systems of a vessel to ensure safety of operation and to avoid pollution of the marine environment.

This unit applies to people working in the maritime industry in the capacity of:

- Marine Engine Driver Grade 1 Near Coastal
- Marine Engine Driver Grade 2 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 Marine Engine Driver Grade 2 Near Coastal and 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

C - Equipment Operations

Unit Sector

Not Applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Plan refuelling

2 Prepare vessel for refuelling

3 Complete refuelling operations

4 Manage an emergency

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 Amount of fuel on board vessel is calculated and positioning of fuel is determined

1.3 Impact of refuelling on vessel safety is determined

1.4 Fuel is ordered according to organisational procedures

2.1 Vessel is positioned and secured for refuelling

2.2 Refuelling equipment is correctly deployed according to organisational procedures

2.3 Communication between all people involved in refuelling procedures is established

2.4 Tank valves are opened as necessary and refuelling operations are performed according to organisational procedures and regulatory requirements

2.5 Tanks are dipped to ensure correct amount of fuel has been received

3.1 Shutdown procedures are conducted according to organisational procedures

3.2 Refuelling equipment is secured according to organisational procedures

3.3 Refuelling records are completed according to organisational procedures and regulatory requirements

3.4 Malfunctions, faults, irregular performance or damage to refuelling equipment are recorded according to organisational procedures

4.1 Appropriate response is made to emergency situation according to organisational procedures

4.2 Personnel are correctly notified and their activities are managed to ensure their safety according to

organisational procedures

- 4.3 Waste containment measures are implemented to protect the environment
- 4.4 Appropriate authorities are notified when required
- 4.5 Incident is recorded according to regulatory requirements and organisational 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.

Unit Mapping Information

This unit replaces and is equivalent to MARC008 Manage fuel systems.

Links

Companion Volume Implementation Guides are found in VETNet -

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