



Australian Government

MARC033 Complete engine room tasks

Release: 2

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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 re-ordering of Knowledge Evidence
- 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 perform tasks to support the operation of marine internal combustion engines, marine propulsion systems, vessel machinery and auxiliary systems.

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
- Marine Engine Driver Grade 3 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 3 NC, Marine Engine Driver Grade 2 NC and Marine Engine Driver Grade 1 NC 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

PERFORMANCE CRITERIA

Elements describe the essential outcomes.

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

1 Plan tasks

1.1 Work plan is developed and sequenced in conjunction with others involved in or affected by work plan, according to organisational procedures

1.2 Timelines, jobs and work priorities are confirmed with Master and other relevant authorities, as required

2 Conduct refuelling operations

2.1 Tank levels are correctly measured and reported before and after fuelling operations

2.2 Fuel capacity is calculated and recorded

2.3 Tools and equipment are selected and checked for serviceability

2.4 Safety boundary and signage for refuelling operation are accessed and used

2.5 Fire and spill prevention equipment is correctly deployed

2.6 Personal protective equipment (PPE) is accessed and used

2.7 Refuelling operations are performed safely and effective communication is maintained with relevant personnel to ensure safety and integrity of vessel and crew

2.8 Appropriate action is taken to handle incidents arising during fuelling operations according to organisational procedures and regulatory requirements

3 Maintain stock and consumables

3.1 Stock levels and consumables are monitored and maintained at required levels

3.2 Stock and consumables are reordered as required

3.3 Records of stock inventories and consumables are

		maintained and discrepancies are identified
4 Perform general housekeeping tasks	4.1	Housekeeping tasks are clarified against work plan
	4.2	Appropriate equipment for specific tasks is determined, prepared and used
	4.3	Housekeeping tasks are performed and assessed against task requirements
	4.4	Procedures for handling, storing and disposing of cleaning liquids are implemented according to regulatory requirements
5 Stow and manage flammable and explosive materials	5.1	Hazards related to flammable and explosive materials are identified
	5.2	Suitability of stowage areas is verified against regulatory requirements and organisational procedures
	5.3	Procedures for safe handling and stowage of flammable and explosive materials are implemented according to regulatory requirements and organisational practices
6 Prepare simple reports	6.1	Requirements for simple reports are identified
	6.2	Information is prepared according to organisational procedures
	6.3	Calculations for fuel consumption and voyage duration are completed
	6.4	Information is assessed for accuracy, currency and relevance for inclusion in report
	6.5	Report is written using appropriate terminology

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 MARC001 Complete engine room tasks.

Links

Companion Volume Implementation Guides are found in VETNet -

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