



Australian Government

MARG009 Manage an engine room and small engineering team in emergencies

Release: 1

MARG009 Manage an engine room and small engineering team in emergencies

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 lead and develop a small engineering team.

It includes organising the engine room for departure, managing the daily engine room routine, managing an engineering team, managing engineering procedures in port and managing engineering emergencies.

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

- Chief Engineer on vessels with inboard engines less than 1500 kW within the exclusive economic zone (EEZ)
- Second Engineer on vessels with inboard engines less than 3000 kW within the EEZ
- Chief or Second Engineer on vessels with outboard engines with unlimited propulsion power within the EEZ
- assistant under the direct supervision of the Chief Engineer
- worker in the engine room of a vessel less than 80 metres in length with propulsion power less than 3000 kW.

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 defined in the National Standard for Commercial Vessels (NSCV) Part D.

Pre-requisite Unit

Not applicable.

Competency Field

G – Teamwork

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Organise engine room for departure

PERFORMANCE CRITERIA

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

1.1 Fuels, lubricating oil, liquefied petroleum gas (LPG) and refrigeration gas required for proposed voyage are obtained

1.2 Flammable and explosive materials are stowed and managed according to regulatory and organisational requirements

1.3 Planned maintenance tasks to be completed during proposed voyage are verified

1.4 Spares and consumables required for proposed voyage are acquired

1.5 Work health and safety (WHS)/occupational health and safety (OHS) hazards in engine room are identified, risks are assessed and corrective actions are taken and recorded according to organisational practices

2 Manage daily engine room routine

2.1 Engine room routine is organised and duties for engineering team are defined

2.2 WHS/OHS roles and responsibilities of engineering team are defined

2.3 WHS/OHS procedures are communicated to engine room crew

2.4 WHS/OHS issues raised are acknowledged and resolved promptly

2.5 Permits for hot work, confined space entry and other high-risk activities are completed according to organisational and regulatory requirements

2.6 Engineering team members are allocated daily maintenance tasks according to planned maintenance

- system or breakdown maintenance
- 2.7** Procedures for collecting and sorting engine room waste from cleaning and maintenance tasks are defined and communicated to engineering team
- 3 Manage engineering team in an emergency**
- 3.1** Performance expectations in an emergency are communicated clearly to engineering team
- 3.2** Effective communication in an emergency is developed and maintained with team and management
- 4 Manage engineering procedures in port**
- 4.1** Planned and breakdown maintenance activities to be conducted in port are arranged to facilitate operational efficiency of vessel
- 4.2** Permits for hot work, confined space entry and other high-risk activities are completed according to organisational and regulatory requirements
- 4.3** Sound business relationships with contractors are established and maintained to ensure effective communication and early identification of potential service delivery problems
- 4.4** Contractual disputes with contractors that arise are managed according to contractual requirements using established mediation mechanisms
- 4.5** Removal of sludge, sewage and engine room waste is arranged
- 4.6** Procedures for removal of sludge, sewage and engine room waste are followed according to regulatory requirements and organisational procedures
- 5 Manage engineering emergencies**
- 5.1** Information is received regarding scope and severity of emergency
- 5.2** Information is analysed to determine appropriate response
- 5.3** WHS/OHS risks are identified and actions are taken according to organisational procedures
- 5.4** Actions are taken to reduce effect of incident according to organisational procedures
- 5.5** Incident is monitored for any changes and appropriate responses are taken according to organisational

procedures

- 5.6 Communications are established with support services and relevant stakeholders, where appropriate
- 5.7 Reports and debriefings are completed according to 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 MARG003 Manage an engine room and small engineering team.

Links

Companion Volume implementation guide can be found in VetNet -

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