



Australian Government

MARG009 Manage an engine room and small engineering team in emergencies

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 clarifying statement changes in Performance 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 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 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

G – Teamwork

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

PERFORMANCE CRITERIA

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

1 Organise engine room for departure

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

Assessment Requirements for MARG009 Manage an engine room and small engineering team in emergencies

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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 and performance criteria on at least one occasion and include:

- completing routine engine room tasks, including:
 - logbook entries
 - monitoring of equipment in engine room
 - regular inspection of engine room
 - responding to alarms
 - watchkeeping arrangements
- developing effective maintenance planning documents
- displaying sound personnel management
- leading and communicating with team members in an emergency
- planning, organising and monitoring team member activity
- writing reports.

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria and include knowledge of:

- consultation and communication techniques and strategies
- hazards associated with flammable/explosive materials
- hazards of gases, including accidental release in a confined space
- managing emergencies
- manufacturer instructions, including all work health and safety (WHS)/occupational health and safety (OHS) requirements and safety data sheets (SDS)/material safety data sheets (MSDS)

- maritime regulations, rules and instructions
- organisational policies and procedures
- principles and techniques involved in:
 - leadership and mentoring
 - performance management systems
- regulations for stowing and managing flammable/explosive materials, including:
 - chemicals
 - diesel
 - gases
 - liquefied petroleum gas (LPG)
 - lubricants
 - petrol
- relevant legislation especially in regard to WHS/OHS and environmental issues
- requirements for confined space entry and hot work permits
- safety management systems (SMS)
- testing of gas detectors.

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.

Practical assessment must occur in a workplace, or realistic simulated workplace, under the normal range of workplace conditions.

Simulations and scenarios may be used where situations cannot be provided in the workplace or may occur only rarely, in particular for situations relating to emergency procedures and adverse weather conditions where assessment would be unsafe, impractical or may lead to environmental damage.

Resources for assessment must include access to:

- applicable documentation, such as legislation, regulations, codes of practice, workplace procedures and operational manuals
- tools, equipment, machinery, materials and personal protective equipment (PPE) currently used in industry.

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