



Australian Government

MARC055 Operate remote controls of propulsion plant, engineering systems and services

Release: 1

MARC055 Operate remote controls of propulsion plant, engineering systems and services

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 remotely operate shipboard plant, propulsion systems, auxiliary machinery and equipment according to technical specifications and within safe operating limits at all times.

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

- Master of a commercial vessel Unlimited.

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 Master Unlimited and to meet regulatory requirements this unit must be delivered consistent with Marine Orders and with the relevant sections of the International Convention on Standards of Training, Certification and Watchkeeping for Seafarers (STCW).
- Those regulatory requirements include STCW International Maritime Organization (IMO) model course competencies and areas of knowledge, understanding and proficiency, together with the estimated total hours required for lectures and practical exercises. Teaching staff should note that timings are suggestions only and should be adapted to suit individual groups of trainees depending on their experience, ability, equipment and staff available for training.

Pre-requisite Unit

Not applicable.

Competency Field

C – Equipment operation

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.

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| 1 Operate remote controls | 1.1 Remote controls of propulsion plant, other engineering systems and auxiliary machinery are operated according to company procedures and manufacturer instructions |
| | 1.2 Clear and concise communication is used with engine room and communication is acknowledged according to established procedures |
| | 1.3 Performance of propulsion plant, other engineering systems and auxiliary machinery and equipment is monitored and evaluated using remote performance indicators |
| | 1.4 Appropriate corrective action is taken in conjunction with the Chief Engineer when performance of propulsion plant or other engineering systems is found to be unsatisfactory or outside of specified limits |
| | 1.5 Relationship between speed and fuel consumption is monitored and action is taken, as required, according to operational instructions |
| | 1.6 Safety and hazard minimisation procedures and regulations are followed to maintain the safety of personnel, propulsion and engineering systems, cargo and vessel |
| 2 Coordinate deck, bridge and engine room resources | 2.1 Coordination of deck, bridge and engine room operations and resources is maintained during daily vessel operation |
| | 2.2 Responses are coordinated, and appropriate action is taken in a breakdown in the remote control systems for propulsion plant, other engineering systems and auxiliary machinery |
| | 2.3 Correct logbook entries are made relating to equipment operations and incidents during a voyage |
| 3 Manage emergencies involving the use of remote controls | 3.1 Remote controls of relevant emergency systems and auxiliary machinery and equipment are correctly operated in a shipboard emergency |

- 3.2** Clear and concise communication is used and communication is acknowledged at all times during emergency situations

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 MARC026 Operate remote controls of propulsion plant and engineering systems.

Links

Companion Volume implementation guide can be found in VetNet -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=772efb7b-4cce-47fe-9bbd-ee3b1d1eb4c2>