



Australian Government

MARC026 Operate remote controls of propulsion plant and engineering systems

Release: 1

MARC026 Operate remote controls of propulsion plant and engineering systems

Modification History

Release 1. This is the first release of this unit of competency in the MAR Maritime Training Package Release 3.0.

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 individuals working in the maritime industry as a Master on vessels up to 3000 gross tonnes.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Not applicable.

Competency Field

C – Equipment operation

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Operate remote controls

PERFORMANCE CRITERIA

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

- 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 and engine room resources**
- 2.1 Coordination of deck 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.

Propulsion plant and engineering systems include one or more of the following:

- auxiliary systems and controls
- bridge controls and UMS (unmanned machinery spaces) systems
- electrical systems and controls
- engineering plant performance indicators
- hydraulic systems and controls
- indicators of speed and fuel consumption
- propulsion systems and controls
- pumps and pumping systems
- steering gear
- fire or explosion in engine room
- flooding of engine room
- loss of electrical power
- loss of propulsion
- loss of steering

Emergencies include one or more of the following:

Unit Mapping Information

This unit replaces and is equivalent to TDMMC207B Operate remote controls of propulsion plant and engineering systems.

Links

Companion Volume implementation guides are found in VETNet -

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