



Australian Government

Assessment Requirements for MARO005 Contribute to monitoring and controlling a safe engine watch

Release: 1

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Modification History

Release 1. New unit of competency.

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:

- applying relevant work health and safety (WHS)/occupational health and safety (OHS) requirements and work practices
- communicating clearly and concisely and acknowledging orders in a seamanlike manner
- communicating effectively with the officer in charge of the engineering watch about matters relevant to watchkeeping duties
- conforming to accepted practices and procedures in the maintenance, handover and relief of the watch
- conforming to established procedures and practices in taking initial action on becoming aware of an emergency or abnormal situation
- maintaining the integrity of emergency alarm systems at all times
- monitoring and anticipating hazards and risks that may arise during engine watchkeeping duties
- monitoring engine-room machinery and equipment including:
 - boiler water levels and steam pressure
 - engine-room machinery temperatures
 - oil levels
- monitoring propulsion and auxiliary machinery according to instructions during watchkeeping duties
- performing basic engine watchkeeping duties under the direction of the officer in charge of the engineering watch on a vessel moored, at anchor or under way
- recognising potential hazards, assessing risks and reporting them to the officer of the watch
- responding to engine orders given by the officer in charge of the engineering watch
- seeking advice/clarification from the officer in charge of the engineering watch where watch information or instructions are not clearly understood
- using internal communications and alarm systems.

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:

- alarms associated with engine-room machinery and their meaning
- basic knowledge and correct use of monitoring equipment used in the engine room
- emergency duties and alarm signals
- engine-room alarm systems and the difference between the various alarms
- engine-room emergency situations, and appropriate action and solutions
- escape routes from machinery spaces
- function and operation of main propulsion and auxiliary machinery
- information required to maintain a safe engine watch
- monitoring equipment used in the engine room
- orders as they relate to watchkeeping provided by the officer in charge of the engineering watch
- procedures for the relief, maintenance and handover of a watch
- relevant WHS/OHS requirements, work practices and pollution control regulation and policies
- requirements for the safe operation of boilers
- shipboard terms and definitions
- terms used in machinery spaces, and names of machinery and equipment.

Assessment Conditions

As a minimum, assessors must satisfy applicable regulatory requirements, which include requirements in the *Standards for Registered Training Organisations* current at the time of assessment.

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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.

Assessment of engine watchkeeping duties must occur in workplace operational situations. Where this is not available, in simulated workplace operational situations that replicate workplace conditions.

Resources for assessment include access to:

- relevant documentation including workplace procedures, regulations, codes of practice and operation manuals
- tools, equipment and personal protective equipment that replicate and are currently used in

industry

- firefighting equipment including:
 - fixed gas systems
 - fixed water systems
 - portable extinguishers
- alarms including:
 - bilge
 - boiler level and pressure
 - fire extinguishing gas alarms
 - temperature.

Links

Companion Volume implementation guides are found in VETNet -

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