



Australian Government

Assessment Requirements for MARO007 Contribute to monitoring and controlling a safe engine watch

Release: 1

Assessment Requirements for MARO007 Contribute to monitoring and controlling a safe engine watch

Modification History

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

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, principles and procedures in the maintenance, handover and relief of the watch
- conforming to established procedures and practices in taking initial action in the event 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
 - 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
- appropriate selection and use of personal protective equipment (PPE)
- correct use of monitoring equipment used in the engine room
- emergency duties and alarm signals and response to emergency situations, including:
 - crankcase and gearbox explosions
 - fire, including engine room scavenge fires
 - gearbox failure
 - generator failure
 - loss of engine cooling water
 - starting air line
- engine room alarm systems and the difference between the various alarms, including fire-extinguisher gas alarms
- engine room emergency situations, and appropriate actions and solutions
- escape routes from machinery spaces
- function and operation of main propulsion and auxiliary machinery
- information required to maintain a safe engine watch
- location and use of firefighting equipment
- 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, including shipboard oil pollution emergency plan (SOPEP)
- requirements for the safe operation of boilers
- shipboard terms and definitions
- terms used in machinery spaces, and names of machinery and equipment.

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 relevant personal protective equipment (PPE) currently used in industry.

Links

Companion Volume implementation guide can be found in VetNet -

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