



Australian Government

Assessment Requirements for MARB037 Maintain and repair bridge navigation equipment and ship communication systems

Release: 1

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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 work health and safety (WHS)/occupational health and safety (OHS) requirements and work practices
- carrying out fault finding and procedural maintenance on hardware and software of the following bridge navigation equipment, on at least two separate occasions:
 - automatic identification system (AIS)
 - echosounder systems
 - electronic chart display and information system (ECDIS)
 - global navigation satellite systems (GNSS)
 - inertial navigation system
 - marine autopilots
 - navigation lights and search lights
 - ship compass equipment
 - ship horn and sound signal system
 - speed logs
 - voyage data recorders
 - wind trackers
- detecting machinery malfunction, location of faults and actions to prevent damage
- dismantling and identifying component parts of the following typical ship's bridge navigation equipment on at least one occasion:
 - radar
 - ship gyrocompass
- using electrical measuring and testing instruments.

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:

- bridge navigation equipment, including:
 - construction, operation, maintenance and fault finding of:
 - AIS
 - echosounder systems
 - ECDIS
 - GNSS
 - inertial navigation system
 - marine autopilots
 - navigation lights and search lights
 - radar
 - ship compass equipment
 - ship horn and sound signal system
 - speed logs
 - voyage data recorders
 - wind trackers
- electrical and electronic systems operating in flammable areas
- principles and maintenance procedures of:
 - bridge navigation equipment
 - internal and external communication systems
- relevant industry standards and manufacturer specifications
- safety precautions and procedures, including electrical risk mitigation control measures
- WHS/OHS requirements, including safe working practices.

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, safety management system (SMS), workplace procedures and operational manuals
- radar and ship gyrocompass equipment
- tools, bridge navigation equipment, machinery, materials and 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>