



**Australian Government**

**Assessment Requirements for MARC043  
Transmit and receive information by  
marine radio**

**Release: 1**

# Assessment Requirements for MARC043 Transmit and receive information by marine radio

## Modification History

Release 1. New unit of competency. Licensing/regulatory information has been incorporated in accordance with Regulatory requirements. Assessment Requirements have been strengthened in accordance with Regulatory requirements.

## 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) procedures and precautions when using and checking radio equipment
- simulating radio voice communications (radiotelephony) accurately and consistently in both normal and emergency situations using very high frequency (VHF) and high frequency (HF) radio equipment in compliance with the relevant sections of radio regulations, including:
  - distress, urgency and safety communications
  - medical service
  - navigational
- communicating effectively with others during radio communication
- conducting operational checks on radio equipment
- identifying and evaluating radio communication problems and determining appropriate courses of action
- maintaining records of radio communication
- operating radio equipment according to manufacturer instructions
- operating VHF and HF radio equipment to transmit and receive messages, including:
  - operating normal vessel-to-vessel service (ship-to-ship)/normal vessel-to-shore service (ship-to-shore)
- performing operational checks on emergency position indicating radio beacons (EPIRBs), search and rescue radar transponders (SARTs), automatic identification system search and rescue transmitters (AIS-SARTs), AIS man overboard (AIS-MOB) devices and digital selective calling MOB (DSC-MOB) devices.
- reading and interpreting marine radio regulations, rules and instructions
- recognising typical faults and problems with radio equipment and taking appropriate action
- simulating the operation of AIS-MOB devices and DSC-MOB devices
- using the phonetic alphabet.

## 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:

- Australian marine search and rescue system
- available radio services, including:
  - Modernised Australian Ship Tracking and Reporting System (MASTREP)
  - medical advice services
  - public correspondence
  - scheduled broadcasts (skeds)
  - search and rescue
- different types of marine radio equipment, their features, applications, operating characteristics, limitations and operating procedures
- EPIRB frequencies
- hazards associated with radio transmission, the repair and maintenance of radio equipment, and related hazard control measures
- marine VHF repeater stations
- methods of communicating vessel position
- operational checks of radio equipment
- principles and procedures for marine radio communication
- procedures for:
  - deploying and operating EPIRBs and SARTs
  - keeping radio communication records
  - transmitting and decoding the phonetic alphabet, excluding the figure code
- purpose of, and procedures for monitoring, calling and working frequencies
- radio calling, replying and relaying procedures
- radio communication log
- radio equipment manufacturer specifications and instructions
- relevant organisations, and their services, including:
  - coast stations
  - limited coast stations
  - Maritime Communication Stations
  - state or territory police forces
- relevant sections of maritime regulations related to radio operation, including:
- radio regulations adopted by the World Radio Communication Conference (as amended), including Chapters VII and IX
- typical radio communication problems and appropriate action and solutions
- typical radio equipment faults, defects and related fault-finding techniques and remedial procedures
- WHS/OHS regulations appropriate to the operation and maintenance of radio equipment.

## Assessment Conditions

Assessors of this unit must hold as a minimum:

- a Long Range Radio Operator's Certificate of Proficiency (LROCP) or equivalent, issued under the Radio communications Act 1992, with a minimum 12 months relevant experience.

Assessors must also satisfy applicable regulatory requirements, which include requirements in the Standards for Registered Training Organisations current at the time of assessment. As a minimum, assessment must satisfy applicable regulatory requirements, which include requirements in 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. The Australian Maritime Safety Authority (AMSA) mandated practical assessment (AMPA) shall be undertaken in accordance with its instructions, ensuring the assessment covers a range of the items identified in the Performance Evidence.

Assessors of AMPA must hold as a minimum:

- a current certificate of competency issued under *Marine Safety (Domestic Commercial Vessel) National Law Act 2012* at the same level as the qualification being assessed with at least 12 months' relevant sea service, or
- a relevant seafarer certificate, as master, engineer or deck officer, issued under the *Navigation Act 2012*.

Resources for assessment must include access to:

- documentation, such as legislation, regulations, codes of practice, safety management system (SMS), workplace procedures, guidelines and operational manuals relating to the use of radio communication equipment, including:
  - Marine Radio Operators Handbook
  - Radiocommunications Act (1992)
  - radio regulations adopted by the World Radiocommunication Conference (as amended)
- tools, equipment, materials and relevant personal protective equipment (PPE) currently used in industry, including:
  - AIS-MOB devices
  - AIS-SARTs
  - DSC-MOB devices
  - EPIRBs
  - medium frequency (MF) or HF radio transceiver with DSC capabilities
  - SARTs
  - VHF radio transceiver with DSC capabilities.

## **Links**

Companion Volume implementation guides are found in VETNet -

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