



Australian Government

Assessment Requirements for MARC044 Transmit and receive information by marine VHF radio

Release: 2

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Modification History

Release 2. This is the second release of this unit of competency in the MAR Maritime Training Package.

- Minor statement changes in unit Application
- Minor statement changes in Assessment Conditions.

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:

- accessing search and rescue radio facilities
- adapting to changes in equipment and procedures in the workplace
- applying work health and safety (WHS)/occupational health and safety (OHS) procedures and precautions when using and checking very high frequency (VHF) radio equipment
- carrying out radio communication accurately and consistently in both normal and emergency situations using shipboard VHF radio equipment and using emergency position indicating radio beacons (EPIRBs), search and rescue radar transponders (SARTs), in compliance with the relevant sections of the Radio Regulations adopted by the World Radio Communication Conference (as amended) and maritime regulations, including:
 - distress, urgency and safety communications
 - medical service
 - navigational
 - normal vessel-to-vessel service (ship to ship)
 - normal vessel-to-shore service (ship to shore)
- communicating effectively with others during VHF radio communication
- conducting operational checks on VHF radio equipment
- deploying and operating an EPIRB and a SART
- maintaining and fault-finding radio equipment
- maintaining records of radio communication
- operating VHF radio equipment to transmit and receive messages in accordance with manufacturer instructions
- operating automatic identification system man overboard (AIS-MOB) devices and digital selective calling MOB (DSC-MOB) devices
- performing operational checks on EPIRBs, SARTs, AIS-SARTs, AIS-MOB devices and

DSC-MOB devices

- recognising typical faults and problems with VHF radio equipment and taking appropriate action
- reading and interpreting marine VHF radio regulations, rules and instructions
- 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, performance criteria and range of conditions and include knowledge of:

- Australian marine search and rescue system
- available radio services, including:
 - Modernised Australian Ship Tracking and Reporting (MASTREP)
 - medical advice services
 - public correspondence
 - scheduled broadcasts (skeds)
 - search and rescue
- different types of marine VHF radio equipment, their features, applications, operating characteristics, limitations and operating procedures
- EPIRBs
- guidelines relating to the use of VHF radio communication equipment
- hazards associated with VHF radio transmission, and the repair and maintenance of VHF radio equipment, and related hazard control measures
- limitations on the performance of different types of marine VHF radio equipment
- marine VHF repeater stations
- methods of communicating vessel position
- operational checks, including:
 - checking VHF radio performance
 - measuring capacity of batteries and the specific gravity of the electrolyte
 - measuring on and off load voltage
 - testing fuses
- principles and procedures for marine VHF radio communication
- procedures for:
 - deploying and operating EPIRBs, SARTs and AIS-SARTs
 - keeping records of VHF radio communication
 - transmitting and decoding of the phonetic alphabet, excluding the figure code
- purpose of, and procedures for, the monitoring of calling and working frequencies
- relevant organisations and their services, including:
 - coast stations
 - company bases

- fishing organisations and cooperatives
- limited coast stations
- private shore stations
- state or territory police forces
- sections of relevant regulations related to marine VHF radio communication
- VHF radio calling, replying and relaying procedures
- VHF radio equipment faults and defects and related fault-finding techniques and remedial procedures
- VHF radio communication problems and appropriate action and solutions
- WHS/OHS regulations appropriate to the operation and maintenance of VHF radio equipment.

Assessment Conditions

Assessors of this unit must hold as a minimum:

- a Short Range Radio Operator's Certificate of Proficiency (SROCP) issued under the Radiocommunications Act 1992 (the Radcomm Act), with a minimum 12 months relevant experience.

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 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:

- documentation, such as legislation, regulations, codes of practice, safety management system, workplace procedures and operational manuals, including:
 - Marine VHF Radio Operators Handbook
 - Radiocommunications Act 1992 (the Radcomm Act)
 - Radio Regulations adopted by the World Radiocommunication Conference (as amended)
- tools, equipment, materials and relevant personal protective equipment (PPE) currently used in industry, including:
 - VHF radio transceiver
 - DSC equipment

- aerials
- batteries
- electrical and radio cable connections
- electrical fuses
- EPIRBs
- SARTs
- AIS-SARTs
- AIS-MOB devices
- DSC-MOB devices.

Links

Companion Volume Implementation Guides are found in VETNet -

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