Australian Government

Assessment Requirements for MARC019 Transmit and receive information by marine VHF radio within Australian Territorial Waters

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Modification History

Release 1. This unit first released with MAR Maritime Training Package Version 2.0.

Performance 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 on at least one occasion and include:

- accurately and consistently using VHF equipment to send and receive messages and signals under normal and emergency situations according to international and national VHF radio regulations/standards
- applying the principles of marine radio and DSC to accurately transmit and receive messages, including distress calls
- cancelling an inadvertent Distress Alert or call
- carrying out radio communications in compliance with the relevant sections of the maritime provisions of the Radio Regulations adopted by the World Radiocommunication Conference (as amended), including Chapters VII and IX
- communicating effectively with other stations by using standard voice procedure, the phonetic alphabet, push to talk (PTT) switch and common radio terminology
- deploying an EPIRB
- sending and receiving Distress Alerts, and Urgency and Safety announcements by DSC
- sending, acknowledging and relaying Distress, Urgency and Safety communications by voice using recognised format
- setting up VHF equipment for use including selecting the channel, adjusting transmitter power level, adjusting squelch and using dual watch facility
- using correct procedures for transmitting and receiving signals using VHF equipment

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:

- basic principles of and procedures for marine VHF radio communications
- basic understanding of the Australian maritime search and rescue system, including satellite distress beacons
- EPIRB frequencies:

- - 406 MHz
  - 121.5/MHz (homing)
- marine VHF repeater stations
- methods of communicating vessel position
- procedures for transmitting and decoding the phonetic alphabet
- purpose of monitoring the VHF Channel 70 used for DSC, including an awareness of the procedures used in making a DSC Distress Alert, Urgency and Safety Announcement
- sections of relevant regulations related to marine VHF radio communications
- VHF radio calling, replying and relaying procedures.

Assessment Conditions

Assessors must satisfy National Vocational Education and Training Regulator (NVR)/Australian Quality Training Framework (AQTF) assessor requirements.

Assessment must satisfy the National Vocational Education and Training Regulator (NVR)/Australian Quality Training Framework (AQTF) standards.

Assessment must occur in operational situations where it is appropriate to do so or where this is not available, assessment must occur via an online radio simulator or simulated VHF radio communications activities and exercises covering a range of normal and emergency communication situations that are typically experienced on a vessel.

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.

Resources for assessment must include access to:

- VHF transceiver equipment – either fixed or handheld, or approved PC based simulator, which includes a DSC facility
- documentation such as legislation, regulations, codes of practice, workplace procedures and operational manuals including:
  - Marine Radio Operators VHF Handbook
  - Radiocommunications Act 1992 including
  - Radiocommunications (Maritime Ship Station – 27 MHz and VHF) Class Licence 2001
  - Relevant State legislation – for carriage requirements
- a range of relevant exercises, case studies and/or simulations.

Links

Companion Volume implementation guides are found in VETNet - https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=772efb7b-4cce-47fe-9bbd-ee3b1d1eb4c2