



Australian Government

**MARC019 Transmit and receive
information by marine VHF radio within
Australian Territorial Waters**

Release: 1

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Modification History

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

Application

This unit involves the skills and knowledge required to transmit and receive information by marine very high frequency (VHF) radio on a vessel according to regulations and includes operating an emergency position indicating radio beacon (EPIRB).

This unit applies to all boaters using marine VHF radio equipment to transmit and receive information to and from shore and vessel-based operators within Australian Territorial Waters – defined as all waters within 12 nautical miles from the coastal baseline.

This unit is consistent with the requirements of the Radiocommunications (Maritime Ship Station – 27 MHz and VHF) Class Licence 2001.

Pre-requisite Unit

Not applicable.

Competency Field

C – Equipment Operations

Unit Sector

Not applicable.

Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

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| 1 Operate VHF radio equipment to transmit and receive messages | 1.1 VHF radio equipment is selected for operation within limits of specifications |
| | 1.2 VHF radio equipment is operated to transmit and receive various types of signal according to manufacturer instructions, established radio operation procedures and regulatory requirements |
| | 1.3 Regulations and procedures applicable to vessel stations equipped with radio and digital selective calling (DSC) |

- facilities are applied during radio communication
- 1.4 Work health and safety/occupational health and safety (WHS/OHS) procedures and hazard control strategies are applied when operating radio equipment
- 2 Access search and rescue VHF radio facilities**
- 2.1 Information that may be required is identified and documented
 - 2.2 Request is made to the appropriate organisation for the provision of the information in the required format and on the correct channel
 - 2.3 Information is provided and received in the required format and on the correct channel
- 3 Operate an EPIRB in a distress situation**
- 3.1 Routine checks are carried out on EPIRBs to confirm their operational capability according to manufacturer instructions and specifications
 - 3.2 EPIRB is operated according to manufacturer instructions and regulatory requirements

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Literacy - required for reading and interpreting regulations and procedures and documenting communication problems.

Range of Conditions

Specifies different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included.

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Radio communications involves the application of principles of marine radio and Digital Selective Calling (DSC) to accurately transmit and receive messages, including distress calls. Use of correct procedures for transmitting and receiving signals using VHF equipment is

required.

Radio communication includes one or more of the following:

- Distress, Urgency and Safety communications
- normal vessel to vessel service (ship to ship)
- normal vessel to shore service (ship to shore)

Organisations with which radio communication may be conducted include one or more of the following:

- coast stations
- fishing organisations and co-operatives
- limited coast stations
- private shore stations, including boating clubs
- state/territory police forces

Available radio services include one or more of the following:

- Automated Weather Stations
- DSC
- public communications
- scheduled broadcasts (skeds)
- search and rescue

Unit Mapping Information

No equivalent unit.

Links

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