



Australian Government

MARC063 Operate Vessel Traffic Services (VTS) equipment

Release: 1

MARC063 Operate Vessel Traffic Services (VTS) equipment

Modification History

Release 1. This is the first release of this unit of competency in the MAR Maritime Training Package.

Application

This unit involves the skills and knowledge required to operate Vessel Traffic Services (VTS) equipment as described in Module 3 of International Association of Marine Aids to Navigation and Lighthouse Authorities (IALA) Model Course C0103-1 Vessel Traffic Services Operator Training, including:

- VTS equipment
- VTS systems.

This unit applies to people working in the maritime industry in the capacity of:

- Vessel Traffic Services (VTS) Operator.

IMO Regulatory framework

International Convention for the Safety of Life at Sea (SOLAS) V/12 states that Contracting Governments planning and implementing VTS shall, wherever possible, follow the guidelines developed by the International Maritime Organization (IMO).

IMO Resolution A.1158(32) Guidelines for VTS states:

- VTS personnel should only be considered competent when appropriately trained and qualified for their VTS duties. This includes, amongst other things, that personnel have satisfactorily completed generic VTS training approved by a competent authority.
- IALA publishes standards and associated recommendations, guidelines and model courses specifically related to the establishment and operation of VTS contribute to achieving worldwide harmonization of VTS.
- Contracting Governments are encouraged to take into account IALA standards and associated recommendations, guidelines and model courses specifically related to the operation of VTS.

Licensing/Regulatory Information

Legislative and regulatory requirements are applicable to this unit.

- Marine Order 64 (Vessel Traffic Services)
- RTOs must:
 - demonstrate compliance with IALA Standard 1050 – Training and Certification
 - take into account IALA standards and associated recommendations, guidelines and model courses, including G1111, G1110 and G1141.

Pre-requisite Unit

MARC044 Transmit and receive information by marine VHF radio

Competency Field

C – Equipment Operations

Unit Sector

Maritime sector

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Operate VTS equipment

PERFORMANCE CRITERIA

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

1.1 VTS equipment and systems are operated safely and effectively in accordance with workplace procedures

1.2 Information obtained from VTS equipment, systems and associated features is correctly interpreted and analysed taking into consideration equipment limitations, prevailing circumstances and conditions

2 Monitor VTS equipment

2.1 VTS equipment is monitored at all times in accordance with workplace procedures

2.2 Faulty equipment and/or abnormal operating parameters are reported in accordance with workplace procedures

2.3 Documentation and records are updated in accordance with workplace procedures

Foundation Skills

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

Range of Conditions

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

Non-essential conditions may be found in the MAR Maritime Training Package Companion Volume Implementation Guide.

Unit Mapping Information

This is a new unit. 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>

Assessment Requirements for MARC063 Operate Vessel Traffic Services (VTS) equipment

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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:

- operating equipment and systems used to meet the purpose of Vessel Traffic Services (VTS) as defined in International Maritime Organization (IMO) Resolution A.1158(32)
- using a Decision Support Tool (DST) to manage identified risks, enhance situational awareness, support VTS personnel providing timely and relevant information, monitoring and managing ship traffic, and responding to developing unsafe situations.

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:

- application of equipment and systems, including benefits, limitations and integration of sensor data as described in International Association of Marine Aids to Navigation and Lighthouse Authorities (IALA) model course C0103-1 such as:
 - AIS
 - environmental systems (hydrographic and meteorological)
 - imaging systems, such as closed-circuit television (CCTV)
 - radar
 - very high frequency (VHF) radio
- DST used to:
 - enhance situational awareness
 - manage identified risks
 - support VTS personnel providing timely and relevant information, monitoring and managing ship traffic, and responding to developing unsafe situations
- methods to monitor equipment performance.

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.

Assessment must occur in workplace operational situations, where this is not appropriate, assessment must occur in simulated workplace operational situations that replicate workplace conditions.

Resources for assessment must include access to:

- applicable documentation such as policies, workplace procedures, codes of practice and operation manuals
- applicable VTS equipment and VTS systems.

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