



Australian Government

MARH023 Use of electronic chart display and information system (ECDIS) to maintain the safety of navigation

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 Performance Evidence
- Minor ECS statement changes in Knowledge Evidence.

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 maintain safe navigation of a commercial vessel using an electronic chart display and information system (ECDIS).

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

- Master Unlimited
- Master up to 100 metres Near Coastal
- Master up to 500 gross tonnage (GT)
- Watchkeeper Deck.

Licensing/Regulatory Information

This unit is equivalent to and delivers the objectives of the following Standards of Training, Certification and Watchkeeping (STCW) provisions:

- STCW Reg II/1 & II/2, Code Section A-II/1 and A-II/2, Tables A-II/1 and A-II/2.

Legislative and regulatory requirements are applicable to this unit.

- Regulatory requirements include STCW International Maritime Organization (IMO) model course competencies and areas of knowledge, understanding and proficiency, together with the estimated total hours required for lectures and practical exercises. Teaching staff should note that timings are suggestions only and should be adapted to suit individual groups of trainees depending on their experience, ability, equipment and staff available for training.

Near Coastal Qualifications:

- This unit is one of the requirements to obtain Australian Maritime Safety Authority (AMSA) certification as a Master up to 100 metres Near Coastal as specified in Marine Order 505.

Blue Waters Qualifications:

- This unit is one of the requirements to obtain AMSA certification as a Master of a

commercial vessel up to 500 gross tonnage (GT), Master Unlimited or Watchkeeper Deck. and to meet regulatory requirements this unit must be delivered consistent with Marine Orders and with the relevant sections of the International Convention on Standards of Training, Certification and Watchkeeping for Seafarers (STCW).

Training providers seeking to offer this unit of competency must gain AMSA approval before the unit is offered.

Seafarers seeking certification should check with AMSA.

Pre-requisite Unit

Not applicable.

Competency Field

H – Navigation

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Set up an ECDIS

PERFORMANCE CRITERIA

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

1.1 ECDIS is initialised and programmed with own vessel data

1.2 Operational performance and accuracy of ECDIS is confirmed

1.3 Settings and values are adjusted to suit conditions for passage planning and navigation

1.4 Means of providing additional information is correctly interfaced with ECDIS

2 Use an ECDIS for passage planning and navigation

2.1 ECDIS is used to assist in passage planning and the conduct of navigation

2.2 Information on ECDIS is monitored to ensure safe

navigation

- 2.3 Information obtained from ECDIS is interpreted and analysed taking into account limitations of equipment, all connected sensors and prevailing circumstances and conditions
 - 2.4 Position of vessel is confirmed by alternative means
 - 2.5 Safety of navigation is maintained through adjustments made to vessel course and speed
 - 2.6 System and position alarms are responded to, to maintain safety of navigation
 - 2.7 Situational awareness is maintained while using ECDIS and other bridge equipment
- 3 **Maintain data**
 - 3.1 Data produced by ECDIS that should be retained to conform with organisational procedures and regulatory requirements is identified
 - 3.2 Data is stored electronically or in hard copy as required by organisational procedures and regulatory requirements
 - 3.3 Security and access requirements for data are adhered to in accordance with organisational 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.

Unit Mapping Information

This unit replaces and is equivalent to MARH009 Use an electronic chart display and information system to navigate safely.

Links

Companion Volume Implementation Guides are found in VETNet -

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