



Australian Government

MARH017 Use wheelhouse equipment for safe 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 format changes in Performance Evidence
- Minor ECS statement changes in Knowledge Evidence
- 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.

Application

This unit involves the skills and knowledge required to maintain safe navigation of a commercial vessel through the use of radar and other equipment used for the navigation of a vessel.

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

- Master up to 24 metres Near Coastal
- Master up to 45 metres Near Coastal.

Licensing/Regulatory Information

Legislative and regulatory requirements are applicable to this unit.

This unit is one of the requirements to obtain Australian Maritime Safety Authority (AMSA) certification as a Master up to 24m NC, Mate up to 100m NC and Master up to 45m NC as specified in Marine Order 505.

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.

PERFORMANCE CRITERIA

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

1 Set up wheelhouse navigation equipment

- 1.1** Wheelhouse navigation equipment is initialised and displays are set up and maintained
- 1.2** Operational performance and accuracy of wheelhouse equipment is confirmed and appropriate actions are taken when performance is out of limits
- 1.3** Misrepresentation of information is detected and corrected or allowed for

2 Use radar to navigate safely

- 2.1** Radar is operated according to manufacturer instructions to produce data on position and speed of vessel, other vessels and fixed objects
- 2.2** Radar plot is constructed on a radar plotting sheet or automatic plotting devices are initialised
- 2.3** Systematic radar observations of vessels in the vicinity are made where there is a risk of collision
- 2.4** Radar data is used to obtain a position fix for vessel using electronic bearing lines and variable range markers
- 2.5** Radar bearings are corrected for vessel heading and compass error as appropriate
- 2.6** Radar plotting data is analysed to anticipate potential collisions
- 2.7** Analysis is used to make informed command decisions on actions needed to avoid collisions

3 Use wheelhouse navigation equipment

- 3.1** Wheelhouse navigation equipment is safely and efficiently used to conduct navigation of the vessel
- 3.2** Position of vessel is monitored during voyage to ensure planned passage is followed

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| | 3.3 | Movement of vessels in the vicinity is monitored to ensure collision situations do not occur |
| | 3.4 | Wheelhouse navigation equipment is maintained according to manufacturer requirements and organisational procedures |
| 4 Maintain navigational records | 4.1 | Navigational data produced by wheelhouse navigation equipment that should be retained to conform with organisational procedures and regulatory requirements is identified |
| | 4.2 | Navigational data is stored electronically or in hard copy as required by organisational procedures and regulatory requirements |
| | 4.3 | Security and access requirements for data are adhered to according to 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 MARH005 Use wheelhouse equipment for safe navigation.

Links

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