



Australian Government

MARB034 Carry out basic welding, brazing, cutting and machining operations on a coastal vessel

Release: 2

MARB034 Carry out basic welding, brazing, cutting and machining operations on a coastal vessel

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 MO505 statement changes in Knowledge Evidence
- Minor statement changes in Assessment Conditions.

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 carry out basic welding, brazing, cutting and machining tasks.

It includes carrying out basic welding, brazing, cutting and machining tasks and following safety and risk control procedures.

This unit applies to persons working in the maritime industry in the capacity of Marine Engine Driver Grade 1 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 Marine Engine Driver Grade 1 Near Coastal as specified in Marine Order 505.

Seafarers seeking certification should check with AMSA

Pre-requisite Unit

Not applicable.

Competency Field

B - Equipment Checking and Maintenance

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

PERFORMANCE CRITERIA

Elements describe the essential outcomes.

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

1 Carry out basic welding tasks

- 1.1** Requirements for welding tasks are correctly interpreted from work instructions
- 1.2** Parts are prepared for welding according to established practice
- 1.3** Parts are welded according to established practice and work requirements
- 1.4** Weld defects are identified and appropriate actions taken according to established practice and operating procedures
- 1.5** Flame gouging methods are used to remove plate and weld material according to established practice and operating procedures
- 1.6** Finished work is checked against work instructions for accuracy and quality

2 Carry out basic brazing tasks

- 2.1** Requirements for brazing tasks are correctly interpreted from work instructions
- 2.2** Parts are prepared for brazing according to established practice and work requirements
- 2.3** Brazing equipment is prepared for brazing operations according to established procedures
- 2.4** Parts are brazed using established procedures
- 2.5** Finished work is checked against work instructions for accuracy and quality

3 Carry out basic cutting tasks

- 3.1** Instructions are reviewed, and required size and shape of cut work is correctly identified and interpreted
- 3.2** Work is correctly marked out in preparation for cutting according to established practice and operating procedures
- 3.3** Thermal cutting plant and equipment is set up according to established procedures

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| | 3.4 | Steel plate and/or rolled sections are cut to shape and size according to established practice and operating procedures |
| | 3.5 | Finished work is checked against work instructions for accuracy and quality according to operating procedures |
| 4 | Carry out basic machining tasks | |
| | 4.1 | Requirements for basic machining tasks are correctly interpreted from work instructions according to operating procedures |
| | 4.2 | Work is correctly marked out in preparation for basic machining according to established practice and operating procedures |
| | 4.3 | Machine is set up according to established procedures |
| | 4.4 | Machining is carried out according to established procedures |
| | 4.5 | Finished work is checked against work instructions for accuracy and quality according to operating procedures |
| 5 | Follow safety and hazard control procedures | |
| | 5.1 | Required safety precautions and regulations are followed when carrying out basic welding |
| | 5.2 | Operational hazards are identified and actions are taken to eliminate or, where elimination is not possible, to minimise, risk to personnel |

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 MARB008 Carry out basic welding, brazing, cutting and machining operations on a coastal vessel.

Links

Companion Volume Implementation Guides are found in VETNet -

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