



Australian Government

MEM25006 Undertake marine sheathing operations

Release: 1

MEM25006 Undertake marine sheathing operations

Modification History

Release 1. Supersedes and is equivalent to MEM25006B Undertake marine sheathing operations

Application

This unit of competency defines the skills and knowledge required to apply sheathing to marine structures (sheathing operations).

Tasks can be carried out on prepared new and old surface areas and sealing can involve various materials to ensure a watertight seal on a variety of components.

Where application of marine coatings is undertaken unit MEM08002 Pre-treat work for subsequent surface coating and/or unit MEM08004 Finish work using wet, dry and vapour deposition methods, should also be selected as appropriate.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Band: A

Unit Weight: 2

Pre-requisite Unit

MEM11011	Undertake manual handling
MEM13003	Work safely with industrial chemicals and materials
MEM13015	Work safely and effectively in manufacturing and engineering
MEM16006	Organise and communicate information
MEM18001	Use hand tools
MEM18002	Use power tools/hand held operations
MEM25001	Apply fibre-reinforced materials
MEM25004	Fair and shape surfaces

Competency Field

Marine craft construction

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 | Determine job requirements | 1.1 | Follow standard operating procedures (SOPs) |
| | | 1.2 | Comply with work health and safety (WHS) requirements at all times |
| | | 1.3 | Use appropriate personal protective equipment (PPE) in accordance with SOPs |
| | | 1.4 | Identify job requirements from specifications, job sheets or work instructions |
| 2 | Prepare surface areas and apply materials | 2.1 | Prepare application material in accordance with manufacturer specifications |
| | | 2.2 | Prepare surface area to suit job application |
| | | 2.3 | Remove surface contaminants using appropriate method |
| | | 2.4 | Protect non-contact surface areas, where applicable |
| | | 2.5 | Apply measures to prevent external contamination in accordance with organisational procedures |
| | | 2.6 | Use appropriate equipment to calibrate mixing quantities |
| | | 2.7 | Select hand tools for mixing and application to suit job requirements |
| 3 | Prepare and apply application materials | 3.1 | Prepare/mix materials in accordance with manufacturer specifications |
| | | 3.2 | Calculate material quantities and cut to produce minimum wastage |
| | | 3.3 | Select and use application tools |
| | | 3.4 | Carry out application procedures in accordance with manufacturer specifications |
| | | 3.5 | Hold job materials securely in place until curing process is achieved, where applicable |

Elements describe the essential outcomes.

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

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| | | 3.6 | Remove excess material |
| | | 3.7 | Clean up application tools and store |
| | | 3.8 | Clean up job area to maximise safe working conditions |
| 4 | Seal fabricated components | 4.1 | Complete surface preparation in accordance with manufacturer specifications |
| | | 4.2 | Apply sealant to components and secure in accordance with specifications and/or drawings |
| | | 4.3 | Clean off excess sealant and test/check to ensure water tightness |

Foundation Skills

This section describes those required skills (reading, writing, oral communication and numeracy) that are essential to workplace performance in this unit of competency.

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

Range of Conditions

This field allows for 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.

- Surface materials include one (1) or more of the following:**
- copper
 - gal sheet and other metals
 - fabric
 - sheathing resins
 - adhesives
 - sealants
 - fillers

- Hand tools for mixing and application include one (1) or more of the**
- mixing sticks
 - putty/broad knives
 - scales

This field allows for 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.

following:

- tins of equal size
- trowels
- squeegee
- brushes
- rollers

Unit Mapping Information

Release 1. Supersedes and is equivalent to MEM25006B Undertake marine sheathing operations

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b7050d37-5fd0-4740-8f7d-3b7a49c10bb2>