



Australian Government

MEM08002 Pre-treat work for subsequent surface coating

Release: 1

MEM08002 Pre-treat work for subsequent surface coating

Modification History

Release 1. Supersedes and is equivalent to MEM08002C Pre-treat work for subsequent surface coating

Application

This unit of competency defines the skills and knowledge required to carry out pre-treatment of common ferrous and non-ferrous work for finishing by a wide variety of processes and involves adjustments to apparatus/ equipment/ controls.

Where the interpretation of technical drawings is required unit MEM09002 Interpret technical drawing should also be selected.

Where the selection and use of engineering measurement is required unit MEM12023 Perform engineering measurements should also be selected.

Where the selection and use of tools is required unit MEM18001 Use hand tools and unit MEM18002 Use power tools/hand held operations, should also be selected as appropriate.

This unit should not be selected if unit MEM08003 Perform electroplating operations has already been selected.

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

Band: A

Unit Weight: 4

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

Competency Field

Surface finishing

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 | Perform pre-treatment processes in correct sequence | 2.1 | Identify common surface soils and conditions |
| | | 2.2 | Carry out appropriate pre-treatment processes to SOPs |
| | | 2.3 | Monitor pre-treatment process parameters to ensure they remain within specified limits |

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, accessibility of the item, and local industry and regional contexts) are included.

- Common metals include one (1) or more of the following:**
- steel
 - copper
 - brass
 - zinc
 - cast iron
 - stainless steel

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Processes include (1) one or more of the following:

- wet coating
- powder coating
- electroplating
- anodising
- electroless plating
- electrophoretic coating
- hot dip metallising

Surface soils and conditions include one (1) or more of the following:

- oils
- greases
- drawing compounds
- cutting lubricants
- buffing lubricants
- rust
- scale

Pre-treatment processes include one (1) or more of the following:

- solvent degreasing
- alkaline cleaning
- pickling
- acid dipping

Process parameters include one (1) or more of the following:

- temperature
- time
- current/voltage
- solution compositions

Unit Mapping Information

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Links

Companion Volume implementation guides are found in VETNet - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b7050d37-5fd0-4740-8f7d-3b7a49c10bb2>