



**Australian Government**

# **MEM08004 Finish work using wet, dry and vapour deposition methods**

**Release: 1**

# MEM08004 Finish work using wet, dry and vapour deposition methods

## Modification History

Release 1. Supersedes and is equivalent to MEM08004B Finish work using wet, dry and vapour deposition methods

## Application

This unit of competency defines the skills and knowledge required to finish work using a range of wet and dry organic coatings by hand or utilising a wide range of machines or semi or fully automatic plant.

Where straightforward monitoring of semi or automatic machine or process is undertaken unit MEM07024 Operate and monitor machine and process should be selected.

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.

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

**Band: A**

**Unit Weight: 4**

## Pre-requisite Unit

MEM08002	Pre-treat work for subsequent surface coating
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.

- |   |   |     |  |
|---|---|-----|--|
| 1 | <b>Determine job requirements</b>                                 | 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 | <b>Assess and prepare components for required coating process</b> | 2.1 | Identify coating specifications from operation sheets/work procedures                                |
|   |   | 2.2 | Check suitability of pre-treated components for finishing process according to enterprise procedures |
|   |   | 2.3 | Prepare components for finishing application, as required  |
|   |   | 2.4 | Position/locate components for finishing according to enterprise procedures                          |
| 3 | <b>Perform simple mixing and estimating operations</b>            | 3.1 | Calculate mixing ratios and mix and thin a range of wet coatings to SOPs, as required                |
|   |   | 3.2 | Estimate required coating quantities using simple surface area calculations                          |
| 4 | <b>Perform coating operation</b>                                  | 4.1 | Set up equipment to specification  |
|   |   | 4.2 | Monitor coating and applied curing technique   |
|   |   | 4.3 | Check coating application, thickness and colour and maintain for compliance with specifications      |

## 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.

**Coating includes one (1) or more of the following:**

- electrostatic powder coating
- electrophoretic coating
- industrial spray coating and lacquering
- electroless (auto catalytic) nickel or copper plating
- phosphating
- chromating
- galvanising
- hot tinning
- sputter deposition
- vacuum evaporation
- ion plating
- paints
- stains
- other liquid finishes

**Prepared includes one (1) or more of the following:**

- visual inspection for contamination
- masking out
- racking
- identification of correct materials to be used
- ensuring cleanliness of work area and equipment
- operational testing of equipment

**Coating operation includes one (1) or more of the following:**

- spray application
- dip coating

## 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>