



**Australian Government**

# **MEM08014 Apply protective coatings (basic)**

**Release: 1**

## MEM08014 Apply protective coatings (basic)

### Modification History

Release 1. Supersedes and is equivalent to MEM08014B Apply protective coatings (basic)

### Application

This unit of competency defines the skills and knowledge required to follow pre-determined procedures to spray pre-treatments and protective coatings at a basic level where an understanding of specific health and safety matters is required. It covers single and two-pack coatings not containing isocyanates.

Where isocyanates are present unit MEM08015 Apply protective coatings (advanced) should also 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 mobile load shifting equipment is required unit MEM11004 Undertake dogging and unit MEM11010 Operate mobile load shifting equipment, should also be selected as appropriate.

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

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>	<p>1.1 Follow standard operating procedures (SOPs)</p> <p>1.2 Comply with work health and safety (WHS) requirements at all times</p> <p>1.3 Identify job requirements from specifications, job sheets or work instructions</p> <p>1.4 Identify and interpret supplier information, product details, Australian and international standards, regulatory and legislative requirements relevant to the work to be undertaken</p>
2	<b>Prepare to undertake work</b>	<p>2.1 Obtain required protective coating materials according to job requirements</p> <p>2.2 Gather required protective coating application equipment according to job requirements</p> <p>2.3 Prepare worksite for application of protective coating</p>
3	<b>Select and maintain personal protective equipment (PPE)</b>	<p>3.1 Select and use appropriate personal protective equipment (PPE) for coating application according to job requirements and SOPs</p> <p>3.2 Identify and use ancillary support attachments</p> <p>3.3 Maintain PPE in accordance with manufacturers' specification and SOPs</p>
4	<b>Prepare work piece for application of protective coating</b>	<p>4.1 Inspect surface condition for readiness for application of protective coating according to specification</p> <p>4.2 Identify unsuitable work pieces/surfaces and fabrication defects and undertake appropriate remedial action or</p>

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	report in accordance with SOPs
	4.3 Mask components where protective coating application is not specified
	4.4 Identify conditions for overspray
<b>Prepare equipment for application of surface coating materials</b>	5.1 Undertake routine maintenance on plant and equipment in accordance with procedures
	5.2 Record status/report by proforma or orally in accordance with procedures
	5.3 Assemble conventional coating application equipment in accordance with equipment requirements
6 <b>Apply single pack coatings</b>	6.1 Identify coating product type, solvent, uses, mixing procedure, clean-up and safety requirements, as appropriate
	6.2 Demonstrate correct method of wet film thickness in accordance with specified dry film
	6.3 Thin coating material to suit the application method and achieve required film thickness
	6.4 Apply coating using specified application method
	6.5 Use coating schedules for metal and non-metal materials
	6.6 Monitor coating application and curing technique according to SOPs
7 <b>Clean and store equipment</b>	7.1 Clean and disassemble conventional coating application equipment and inspect for damage
	7.2 Record and report faulty equipment to appropriate personnel in accordance with SOPs
	7.3 Store coating application equipment in accordance with SOPs

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

8	<b>Inspect finish surface</b>	8.1	Assess surface finish for profile size differences and uses
		8.2	Determine coating thickness using appropriate instruments and compare results with job specifications
		8.3	Inspect total surface for conformance to specification in accordance with SOPs
		8.4	Record inspection results in accordance with SOPs

## 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.

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

- brush
- roller
- conventional spray equipment

**Specific health and safety matters include one (1) or more of the following:**

- interpretation of safety data sheet (SDS) warnings
- materials sensitivity
- hazardous goods
- breathable air
- introduction of compressed air into the body

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

- hand protection
- full body protection
- respirators
- air fed hoods and foot protection

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- noise and heat protection

## **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>