



**Australian Government**

# **MSFFF3002 Set up, operate and maintain mechanical coating systems**

**Release: 1**

# MSFFF3002 Set up, operate and maintain mechanical coating systems

## Modification History

Release 1 - New unit of competency

## Application

This unit of competency covers setting up, operating and maintaining mechanical coating systems in order to apply coatings to specifications.

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

## Pre-requisite Unit

## Competency Field

## Unit Sector

Furniture finishing

## Elements and Performance Criteria

Elements describe the essential outcomes.

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

1	Prepare for work	1.1	Characteristics of the surface and the required surface coating are identified from work orders or instructions
		1.2	Processing and application techniques, time and safety requirements are identified and used for work planning
		1.3	Work health and safety (WHS) requirements, including ventilation requirements and personal protection needs, are observed throughout the work
		1.4	Tools, equipment and accessories are identified and checked for safe and effective operation for the surface coating task
		1.5	Coating materials are identified and prepared
2	Check and prepare for spraying	2.1	Products with surface or other faults are identified and faults reported or repaired as appropriate

- |   |  |     |   |
|---|--|-----|---|
|   |  | 2.2 | Other products and equipment in the workplace are protected from overspray  |
|   |  | 2.3 | Trial applications of surface materials are made to check equipment operation, materials consistency and specified surface finish |
|   |  | 2.4 | Machine faults are identified and rectified or reported   |
|   |  | 2.5 | Material faults are identified and workplace procedures for rectification are followed  |
| 3 | Apply surface coating                  | 3.1 | Surfaces are kept free of contamination   |
|   |  | 3.2 | Surface coatings are applied according to workplace procedures  |
|   |  | 3.3 | Surface coating viscosity and coverage is monitored and checked against workplace requirements for even spread and thickness      |
|   |  | 3.4 | Rectification of surface faults is made as required   |
|   |  | 3.5 | Products are inspected and approved for suitability for further processing  |
|   |  | 3.6 | Defects are dealt with and/or reported in accordance with workplace procedures  |
| 4 | Clean work area and maintain equipment | 4.1 | Equipment is cleaned and inspected for serviceable condition and stored appropriately   |
|   |  | 4.2 | Unserviceable equipment is tagged, faults are identified and appropriate personnel are informed                                   |
|   |  | 4.3 | Work area, including spray booth, is cleaned and returned to approved condition   |
|   |  | 4.4 | Workplace records are completed   |

## Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency. Detail on appropriate performance levels for each furnishing unit of competency in reading, writing, oral communication and numeracy utilising the Australian Core Skills Framework (ACSF) are provided in the Furnishing Training Package Implementation Guide.

## Range of Conditions

Specifies 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. Range is restricted to essential operating conditions and any other variables essential to the work environment.

- |  |  |
|--|--|
| <b>Unit context includes:</b>              | <ul style="list-style-type: none"><li>• WHS requirements, including legislation, building codes, material safety management systems, hazardous and dangerous goods codes, and local safe operating procedures or equivalent</li><li>• work is carried out in accordance with legislative obligations, environmental legislation, relevant health regulations, manual handling procedures and organisation insurance requirements</li><li>• work requires individuals to demonstrate discretion, judgement and problem solving in the application of surface coatings</li></ul> |
| <b>Mechanical coating systems include:</b> | <ul style="list-style-type: none"><li>• curtain coating</li><li>• UV coating</li><li>• tumbling</li><li>• dipping</li><li>• electrostatic powder coating</li><li>• automatic (robotic) spray equipment</li></ul>   |
| <b>Tools and equipment include:</b>        | <ul style="list-style-type: none"><li>• computerised spray system</li><li>• electrostatic spray gun</li><li>• baking oven</li><li>• barrel tumbler</li><li>• spray booth</li><li>• liquid containers</li><li>• air compressor and hoses</li><li>• screwdrivers</li><li>• shifting spanner and spanners</li><li>• ford cup</li></ul>  |
| <b>Materials include:</b>                  | <ul style="list-style-type: none"><li>• stains</li><li>• lacquers</li></ul>  |

- wax
  - oil
  - two-pack polyurethane
  - three-pack polyester
  - enamels
  - acrylics
  - powder coating
- Personal protective equipment includes:**
- that prescribed under legislation, regulations and enterprise policies and practices
- Information and procedures include:**
- workplace procedures relating to the use of tools and equipment
  - work instructions, including job sheets, cutting lists, plans, drawings and designs
  - workplace procedures relating to reporting and communication
  - manufacturer specifications and operational procedures

## Unit Mapping Information

Supersedes and is equivalent to LMFFF3002B Set up, operate and maintain mechanical coatings systems

## Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0601ab95-583a-4e93-b2d4-cfb27b03ed73>