



**Australian Government**

# **MSFFF2006 Apply surface coatings by spray gun**

**Release: 1**

# MSFFF2006 Apply surface coatings by spray gun

## Modification History

Release 1 - New unit of competency

## Application

This unit of competency covers applying surface coatings by a handheld spray gun.

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                                         | Plan and 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                                                                                             | Surface coatings are identified and prepared, as required, for the surface coating tasks                                                      |
| 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 condition of spray system, spray patterns, equipment operation, materials viscosity and specified surface finish |
|   | 2.4                   | Unserviceable components are cleaned or replaced and spray system re-assembled                                                                                             |
|   | 2.5                   | Spray pattern faults are identified and rectified in accordance with workplace procedures.                                                                                 |
|   | 2.6                   | 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 build and coverage is checked against workplace requirements for even spread and thickness                                                                         |
|   | 3.4                   | Rectification of surface faults are made in accordance with workplace procedures                                                                                           |
|   | 3.5                   | Products are inspected and approved for suitability for further processing                                                                                                 |
| 4 | Clean work area       |                                                                                                                                                                            |
|   | 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 some discretion, judgement and problem solving in the application of surface coatings</li></ul> |
| <b>Spray guns include:</b>                     | <ul style="list-style-type: none"><li>• conventional air spray guns and airless spray guns</li><li>• high volume/low pressure (HVLP) air-assisted and airless spray guns</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Coatings include:</b>                       | <ul style="list-style-type: none"><li>• pre-catalysed lacquer</li><li>• acid catalysed lacquer and nitro-cellulose lacquer</li><li>• one-pot polyurethane and water-based coatings</li><li>• stains, lacquers, polish, enamels and acrylics</li></ul>                                                                                                                                                                                                                                                                                                                               |
| <b>Tools and equipment include:</b>            | <ul style="list-style-type: none"><li>• pressure feed systems</li><li>• spray booth</li><li>• liquid containers</li><li>• air compressor and hoses</li><li>• air regulator</li><li>• positive pressure air-wash masks</li><li>• canister-type face masks</li><li>• screwdrivers</li><li>• shifting spanner and spanners</li></ul>                                                                                                                                                                                                                                                   |
| <b>Personal protective equipment includes:</b> | <ul style="list-style-type: none"><li>• that prescribed under legislation, regulations and enterprise policies and practices</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                              |

**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 LMFFF2006B Apply surface coatings by spray gun

## Links

Companion Volume implementation guides are found in VETNet -

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