



Australian Government

MSFFF2014 Apply surface coatings by spray gun

Release: 1

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Modification History

Release 1. Changes to code, application, elements, performance criteria, assessment requirements. Foundation skills added. Range of conditions removed. Assessment requirements changed.

Application

This unit describes the skills and knowledge required to apply surface coatings using a handheld spray gun. Workers with this competency complete routine tasks in the furniture finishing industry.

No licensing or certification requirements exist at the time of publication. Relevant legislation, industry standards and codes of practice within Australia must be applied.

Competency Field

Furniture finishing

Elements and Performance Criteria

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Plan and prepare for task	1.1 Determine task requirements, including characteristics of surface and required surface coating, from work documentation 1.2 Plan task by identifying processing and application techniques, time and safety requirements and efficient work methods 1.3 Identify and follow work health and safety requirements 1.4 Identify tools, equipment and accessories to meet task requirements and check they are safe and operational 1.5 Identify and prepare required surface coatings and other materials and check they meet task quality requirements
2. Check and prepare for spraying	2.1 Identify surface or other faults in products to be coated and report or repair faults in accordance with workplace procedures 2.2 Protect other products and equipment in the workplace from overspray 2.3 Perform trial applications of surface materials to check condition of spray system, spray patterns, equipment operation,

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
	materials viscosity and conformity with specified surface finish 2.4 Clean or replace unserviceable components and reassemble spray system 2.5 Identify and rectify spray pattern faults in accordance with workplace procedures. 2.6 Identify and rectify material faults in accordance with workplace procedures
3. Apply surface coating	3.1 Ensure surfaces are kept free of contamination 3.2 Apply surface coatings in accordance with workplace procedures 3.3 Check surface build and coverage against workplace requirements for even spread and thickness 3.4 Rectify surface faults in accordance with workplace procedures 3.5 Inspect products and approve for suitability for further processing
4. Clean work area	4.1 Check, clean and store equipment and unused materials in accordance with equipment instructions and workplace procedures 4.2 Tag unserviceable equipment, identify faults and inform appropriate personnel in accordance with workplace procedures 4.3 Clean work area, including spray booth, safely dispose of waste and identify items for recycling in accordance with workplace procedures and environmental standards 4.4 Complete required workplace records

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

- Reading skills to interpret familiar workplace procedures and work documentation
- Writing skills to communicate simple information in familiar workplace documents
- Numeracy skills to measure and calculate area and estimate material requirements.

Other foundation skills essential to performance are explicit in the performance criteria of this unit.

Unit Mapping Information

Release 1. Supersedes and is equivalent to MSFFF2006 Apply surface coatings by spray gun.

Links

Companion Volume implementation guides are found in VETNet -

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

Assessment Requirements for MSFFF2014 Apply surface coatings by spray gun

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Performance Evidence

There must be evidence the candidate has completed all the tasks outlined in the elements and performance criteria of this unit, and demonstrated the ability to:

- select and apply surface coatings, including the adjustment of spray equipment to achieve required spray pattern, on at least 3 occasions so that the coatings are free of faults, with a consistent sheen, and meet workplace quality standards. At least 2 of the following surface types must be included:
- solid timber
- manufactured board
- veneer board
- metal.
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Knowledge Evidence

There must be evidence the candidate has knowledge of:

- types of spray equipment, including:
 - conventional air spray guns and airless spray guns
 - high volume/low pressure (HVLP) air-assisted and airless spray guns
- spray processes
- types of coating, including:
 - pre-catalysed lacquer
 - acid catalysed lacquer and nitro-cellulose lacquer
 - one-pot polyurethane and water-based coatings
 - stains, lacquers, polish, enamels and acrylics
- methods to prevent contamination of surfaces during and after surface coating
- workflow for spraying operations
- the function of tools and equipment commonly used in applying spray coatings, including at least 6 of the following:
 - pressure feed systems
 - spray booth
 - liquid containers

- air compressor and hoses
- air regulator
- positive pressure air-wash masks
- canister-type face masks
- screwdrivers
- shifting spanner and spanners
- sources of workplace information, including:
 - workplace procedures relating to the use of tools and equipment
 - work instructions
 - workplace procedures relating to reporting and communication
 - manufacturer specifications and operational procedures
- work health and safety requirements, including manual handling procedures and the use of personal protective equipment (PPE).
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Assessment Conditions

Skills must have been demonstrated in the workplace or in a simulated environment that reflects workplace conditions and contingencies. The following conditions must be met for this unit:

- use of suitable facilities, equipment and resources, including:
 - work orders
 - items requiring spray coatings
 - spray equipment, spray booth, coatings and cleaning products required for performance evidence
 - PPE
 - workplace procedures, manufacturing specifications, codes, standards, manuals, and reference materials.

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

Links

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