



Australian Government

MSFFF3003 Apply plural component coatings

Release: 1

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Modification History

Release 1 - New unit of competency

Application

This unit of competency covers applying plural component coatings, including polyurethane, polyester coatings and acid catalysed, to surfaces.

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	Workplace information, including materials application and safety information, and material safety data sheets (MSDS), is used to inform work practices
		1.2	Characteristics of the surface and the required surface treatment are identified from work orders or instructions
		1.3	Processing and application techniques, time and safety requirements are identified and used for work planning
		1.4	Work health and safety (WHS) requirements, including ventilation requirements and personal protection needs, are observed throughout the work
		1.5	Tools, equipment and accessories are identified and checked for safe and effective application of plural component coatings
2	Prepare for application of	2.1	Surfaces are checked for contamination and correct preparation according to workplace procedures and

	materials	standards
		2.2 Products with surface or other faults are identified and faults repaired as appropriate
		2.3 Materials required are identified and prepared for the task
		2.4 Spray booths and work documentation are inspected to ensure nitro-cellulose lacquer has not been sprayed in the same booth as that used for the application of plural component coatings
		2.5 Nitro-cellulose overspray is cleaned off booth surfaces if necessary before application of plural component coatings
		2.6 Trial applications of plural component coatings are made to check equipment operation, materials consistency and viscosity
		2.7 Faults and/or inconsistencies in applied coating are identified and workplace procedures for rectification and adjustment are followed
3	Apply finishing materials	3.1 Techniques for application of plural component coatings are identified and selected
		3.2 Materials are applied according to job instructions, material manufacturer specifications and workplace procedures
		3.3 Finished products are inspected and approved for suitability for further processing
		3.4 Products which do not meet quality specifications are rectified or tagged for further investigation
4	Clean work area and maintain equipment	4.1 Equipment used 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 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.

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|--|---|
| Unit context includes: | <ul style="list-style-type: none">• WHS requirements, including legislation, building codes, material safety management systems, hazardous and dangerous goods codes, and local safe operating procedures or equivalent• work is carried out in accordance with legislative obligations, environmental legislation, relevant health regulations, manual handling procedures and organisation insurance requirements• work requires individuals to demonstrate discretion, judgement and problem solving in the application of plural component coatings |
| Application techniques and processes include: | <ul style="list-style-type: none">• brushing and spraying |
| Surfaces include: | <ul style="list-style-type: none">• solid timber• manufactured board• metal |
| Tools and equipment include: | <ul style="list-style-type: none">• liquid containers• rubber gloves• positive pressure air-wash face masks• positive pressure water-wash spray booths• protective clothing• spray guns• compressor• air lines• brushes• sanding block• orbital sanders |
| Materials include: | <ul style="list-style-type: none">• two-part polyurethane |

- Personal protective equipment includes:**
- two/three part polyester
 - acid catalysed lacquer
 - solvents
 - 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 LMFFF3003B Apply plural component coatings

Links

Companion Volume implementation guides are found in VETNet -

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

Assessment Requirements for MSFFF3003 Apply plural component coatings

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Performance Evidence

- Interpret work order and locate and apply relevant information
- Apply safe handling requirements for equipment, products and materials, including use of personal protective equipment
- Identify materials used in the work process
- Follow work instructions, operating procedures and inspection processes to:
 - minimise the risk of injury to self or others
 - prevent damage to goods, equipment and products
 - maintain required production output and product quality
- Apply plural component coatings on at least three (3) occasions, including:
 - one (1) acid catalysed
 - one (1) two-part polyurethane
 - one (1) polyester
- Maintain application equipment
- Use mathematical ideas and techniques to correctly complete measurements, calculate area and estimate material requirements
- Communicate ideas and information to enable confirmation of work requirements and specifications and the reporting of work outcomes and problems, interpret basic plans and follow safety procedures
- Minimise wastage of resources, including materials, time and money
- Work with others and in a team by recognising dependencies and using cooperative approaches to optimise work flow and productivity

Knowledge Evidence

- Identification of application techniques
- Characteristics of acid catalysed, polyurethane and polyester coatings
- Methods to prevent contamination of surfaces during and after coating
- Work flow in relation to the application of polyurethane and polyester

Assessment Conditions

- Assessors must:
 - hold training and assessment competencies as determined by the National Skills Standards Council (NSSC) or its successors

- have vocational competency in the furnishing industry at least to the level being assessed with broad industry knowledge and experience, usually combined with a relevant industry qualification
- be familiar with the current skills and knowledge used and have relevant, current experience in the furnishing industry.
- Assessment methods must confirm consistency of performance over time rather than a single assessment event and in a range of workplace relevant contexts.
- Assessment must be by observation of relevant tasks with questioning on underpinning knowledge and, where applicable, multimedia evidence, supervisor's reports, projects and work samples.
- Assessment is to be conducted on single units of competency or in conjunction with other related units of competency. Foundation skills are integral to competent performance in the unit and should not be assessed separately.
- Assessment must occur on the job or in a workplace simulated facility with relevant process, equipment, materials, work instructions and deadlines.
- Access is required to spray application equipment, acid catalysed, polyurethane and polyester coatings.

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