



Australian Government

MSFFDT4001 Apply finishing techniques to custom furniture

Release: 1

MSFFDT4001 Apply finishing techniques to custom furniture

Modification History

Release 1 - New unit of competency

Application

This unit of competency covers applying finishing techniques to custom furniture involving application of skills and knowledge at a highly skilled craftsman or artisan level.

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

Pre-requisite Unit

Competency Field

Unit Sector

Furniture design and technology

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	Applicable legislative, work health and safety (WHS), and organisational requirements relevant to finishing custom furniture are verified and complied with
		1.2	Instructions, plans and design briefs are read and interpreted to identify processes and materials to complete work tasks
		1.3	Tools, equipment and materials are selected and checked prior to use to ensure that they are appropriate for the work, serviceable and in a safe condition
		1.4	Quality checking procedures are developed and documented for each step in the finishing process
2	Select appropriate finish technology	2.1	Design brief and furniture material, style and purpose are appraised to identify finishing technique options
		2.2	Using samples of the type of material surface and specified finish, various finishing options are evaluated

- and the preferred option is selected
- 2.3 Specifications for type of finishing material to be applied are identified to determine means of application
 - 2.4 Method of applying finishes to surfaces is identified and evaluated
 - 2.5 Sample of material is tested with selected finishing technique to ensure appropriateness
- 3 Finish furniture surface
- 3.1 Furniture surface is prepared in accordance with the finishing specification
 - 3.2 Imperfections, pores, nail or screw holes on the surface are rectified
 - 3.3 Finishing processes and materials are applied in accordance with the agreed specifications
 - 3.4 Surface is polished or buffed depending on the shine required
 - 3.5 Work is checked against required quality standards
 - 3.6 Any non-conformity with the required quality standards is rectified
- 4 Complete housekeeping
- 4.1 Unused materials are stored or recycled as required
 - 4.2 Tools and equipment are cleaned and stored appropriately
 - 4.3 Faulty and defective equipment is tagged and reported in accordance with workplace practices
 - 4.4 Work area is cleaned and rubbish disposed of appropriately
 - 4.5 Workplace documentation and/or reports 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 conceptual and analytical ability, discretion, judgement and problem solving |
| Finishing custom furniture includes: | <ul style="list-style-type: none">• preparation technique used on the furniture surface• the processes of selection, evaluation and application of any materials to the surface• the process of polishing• other final finishing processes |
| Tools and equipment include: | <ul style="list-style-type: none">• power and hand sanders• brushes• steel wool• scrapers• rags• rubbing pads• spray guns• rottenstone• pumice• other polishing and rubbing compounds |
| Materials include: | <ul style="list-style-type: none">• timber (both indigenous and overseas)• adhesives and fasteners• shellac |

	• lacquer • polyurethane • oil finishes • stains • oxides • bleaching compounds • ammonia • filling compounds
Furniture surface preparation includes:	• sanding by hand or power sander • scraping • planing • other smoothing techniques • and is to take account of the fact that the colour of the wood may be changed by: • staining • bleaching • painting • ammonia • fuming • other techniques
Surface filling includes:	• using wood putty, wood plugs or other fillers
Finishing processes and materials include:	• waxing • shellacking • nitrocellulose lacquering • conversion lacquering • linseed oiling • tung oiling • alkyd varnishing • polyurethane varnishing • water-based polyurethane and/or oil-varnish mixes
Personal protective equipment includes:	• that prescribed under legislation, regulations and enterprise policies and practices
Information and procedures include:	• work procedures/instructions • manufacturer specifications and instructions • standard forms of workplace process and procedures • organisation work specifications and requirements • legislation, regulations and codes of practice • quality and Australian Standards and procedures

Unit Mapping Information

Supersedes and is equivalent to LMFFDT4001A Apply finishing techniques to custom furniture

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 MSFFDT4001 Apply finishing techniques to custom furniture

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Performance Evidence

- Collect, organise and understand information related to furnishing work instructions and work orders and safety procedures
- 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
- Finish a minimum of four (4) different pieces of furniture to industry standards using at least four (4) different finish technologies on each, from the processes set out in the Range of Conditions
- Use mathematical ideas and techniques to correctly complete measurements, calculate area and estimate material requirements
- Lead others and work effectively to improve production quality and outcomes
- 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
- Use workplace technology related to the coordination, including communication equipment, time and management aids and other measuring devices
- 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 and encourage participation of employees in the planning of work activities and changes

Knowledge Evidence

- State or territory WHS legislation, regulations, standards and codes of practice relevant to the application of finishes
- Organisational and site standards, requirements, policies and procedures for the selection and use of finishing materials
- Finishing techniques
- Characteristics, properties and selection criteria of finishing materials
- Finishing characteristics and properties of timber being used
- Matching requirements of adhesives and fasteners to timbers/materials used

- Types of tools and equipment and procedures for their safe use, operation and maintenance
- Work flow in relation to the furniture items being made or repaired
- Environmental protection requirements
- Established communication channels and protocols
- Relevant problem identification and resolution

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 realistic and differing finishing tasks, materials, equipment and specifications relevant to applying finishing techniques to custom furniture.

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