



Australian Government

MSFFDM4016 Produce timber veneered components for custom furniture

Release: 1

MSFFDM4016 Produce timber veneered components for custom furniture

Modification History

Release 1. Unit code and Application changed. Elements and Performance Criteria changed to active voice. Range of Conditions removed and relevant content moved to Assessment Requirements. Assessment Requirements changed to remove duplication with Performance Criteria. Supersedes and is equivalent to MSFFM4004 Produce timber veneered components for custom furniture.

Application

This unit describes the skills and knowledge required to produce timber veneered components including laminates (two or more layers of veneer adhered to each other) for custom-made furniture and similar products in a wide variety of operations.

This unit applies to individuals working in a manufacturing or design studio environment who produce custom curved or shaped components, either alone or as part of an internal or external team.

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

Competency Field

Workshop practice

Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Prepare for work	1.1 Verify and comply with relevant legislative, work health and safety and workplace requirements relating to producing timber veneered components 1.2 Read and interpret job specifications to identify processes and materials 1.3 Identify, evaluate and select suitable timber or timber veneer material, evaluated and selected 1.4 Check tools, equipment and materials in accordance with workplace procedures 1.5 Plan and document sequence of work, including starting point, to

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	ensure efficiency and quality of finish 1.6 Develop and document quality-checking procedures for each step in veneering process
2. Prepare timber veneer	2.1 Select timber and prepare the cutting face in accordance with procedures 2.2 Cut timber veneer along grain at specified thickness 2.3 Monitor veneer thickness and consistency in context of size and tolerances 2.4 Dress veneer to the required tolerances for further use
3. Lay out and prepare materials	3.1 Lay out veneer design from job specifications 3.2 Select veneers and check for flaws 3.3 Match veneers and select and prepare for method of joining to adjacent veneers 3.4 Prepare for application and lay out veneers 3.5 Select and prepare suitable processes for joining to backing and adjacent veneers 3.6 Select and prepare for style of edge finish
4. Apply or fit and finish	4.1 Measure, mark and cut veneers to size, and apply to base material 4.2 Apply adhesives in accordance with workplace procedures and manufacturer instructions 4.3 Apply selected joining process in accordance with workplace procedures, including use of protective equipment 4.4 Complete final trim and finishing to job specifications 4.5 Check work against required quality standards, and rectify any non-conformities
5. Finalise the work sequence	5.1 Prepare product for finishing in accordance with design specification 5.2 Clean, maintain and store carving tools in accordance with manufacturer specification 5.3 Clean and clear work area in accordance with workplace procedures 5.4 Complete workplace documentation

Foundation Skills

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

- Numeracy skills to interpret technical information and perform calculations including measurements.
- Reading skills to interpret job requirements.
- Writing skills to complete workplace documentation.

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

Unit Mapping Information

Release 1. Supersedes and is equivalent to MSFFM4004 Produce timber veneered components for 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 MSFFDM4016 Produce timber veneered components for custom furniture

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Performance Evidence

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

- prepare a minimum of one significant veneer, including:
 - the selection of materials
 - the preparation of the cutting face
 - the cutting and dressing of the veneer
- apply and finish veneers to at least three different surfaces, including:
 - one flat
 - one curved
 - one laminate
 - at least two requiring veneer edging
- perform checks on tools and equipment used in the above production items, relating to appropriateness for use, service standards and safety.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- types, characteristics, uses and limitations of veneers including laminates
- techniques for the manufacture and application of veneers, including:
 - mechanical press
 - vacuum technique
 - hot glue hammering
 - butting two right angle edges together then 'stitching' the veneer using a hot melt glue or tape
 - using a scarf joint then gluing the surfaces together
- types, characteristics, uses and limitations of different veneering timbers:
 - wood
 - particleboard
 - medium density fibreboard (MDF)

- techniques for style and edge finishes, both solid timber and veneer edging to cover exposed edges
- techniques for briefing and plan representations of furniture design
- the preparation of drawings or set-outs
- types, characteristics, uses and limitations of tools and equipment and procedures for their safe use, operation and maintenance, including:
 - knives
 - chisels
 - measuring tapes or rules
 - mallets
 - squares
 - levels
 - planes
 - band saws
 - rotary lathe
 - slicing machine
 - half round lathe
 - power saws
 - power drills/screwdrivers
 - hand drills
 - pneumatic tools, compressor and spray equipment
 - clamps
 - screwdrivers
 - rollers
 - laminate trimmers
 - cutters and hand routers
 - sandpaper
 - wire wool
 - sanding block
- materials used in the veneer manufacturing and application process, including:
 - timber
 - manufactured board
 - laminates
 - timber strips
 - adhesives
 - cleaning materials
 - tapes
- workflow in relation to furniture production and application of timber veneer
- applicable work health and safety, legislative and workplace requirements relevant to producing timber veneered components for custom-made products

- workplace and site standards, requirements, policies and procedures for the production of timber veneer components.

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:
 - veneer manufacturing and application equipment and materials.

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

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