



Australian Government

MSFFM3027 Produce angled and curved components using solid timber

Release: 1

MSFFM3027 Produce angled and curved components using solid timber

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 produce and assemble solid timber components using angled and curved construction methods. Products may be custom-made or mass-manufactured and could include curved counters, desks, seating, cabinetry and end panels.

Workers with this competency follow established procedures using discretion, judgement and problem solving to determine construction methods based on design documentation provided to them.

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

Cabinetry and furniture

Elements and Performance Criteria

Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1 Prepare for task	1.1 Determine task requirements from design and other work documentation 1.2 Plan construction and assembly sequence and identify procedures for checking quality at each stage 1.3 Identify and follow work health and safety procedures 1.4 Select suitable work area for task 1.5 Complete preparatory drawings and set-outs in accordance with work documentation 1.6 Develop cutting list for components in accordance with work documentation 1.7 Select tools and equipment and check they are safe and functional

	1.8 Check that materials meet task quality requirements
2 Complete construction	2.1 Set out and prepare materials and mark components in accordance with design requirements 2.2 Use tools and equipment safely and in accordance with manufacturer specifications 2.3 Check product quality against specifications at each stage of construction and assembly. 2.4 Bend and form materials 2.5 Make components and confirm against set-out for tolerances, fit and accuracy 2.6 Assemble components and confirm against set-out for accuracy, fit, twist and distortion 2.7 Prepare product for final finish in accordance with task requirements
3 Finalise task	3.1 Clean work area, safely dispose of waste and identify items for recycling in accordance with workplace procedures and environmental standards 3.2 Clean machinery, complete routine maintenance and leave in safe mode in accordance with workplace procedures 3.3 Identify, tag and report faulty equipment in accordance with workplace procedures 3.4 Complete task documentation in accordance with workplace procedures

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 information in familiar workplace documents and make clear and legible markings on materials
- Numeracy skills to measure lengths, angles and areas 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 MSFFM3004 Produce angled and curved furniture using solid timber.

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 MSFFM3027 Produce angled and curved components using solid timber

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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:

- produce at least 4 curved components using solid timber, collectively including:
 - one kerfing method
 - one machine curved method
 - one laminated curve method
- produce at least 2 angled components using solid timber, collectively including:
 - one bevel join
 - one flat panel angled component.
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Knowledge Evidence

There must be evidence the candidate has knowledge of:

- workplace procedures for:
 - work health and safety
 - quality assurance
 - reporting of machinery faults and material defects
- workflow for the construction process
- how to:
 - interpret design documentation
 - prepare drawings and set-outs
- techniques for producing curved and angled components using solid timber, including machine and laminated curve methods and bevel joins
- techniques for skinning a curved sub-frame
- techniques for producing flat panel angled components
- types and characteristics of timbers used for angled and curved components
- tools and machinery used to create angled and curved timber components, including those used for bending and forming
- personal protective equipment (PPE) required when creating angle and curved components using solid timber

- types and characteristics of adhesives used in cabinetry and furniture construction.
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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:
 - design documentation
 - unprocessed materials for construction
 - tools, equipment and machinery required for performance evidence
 - PPE
 - workplace procedures.

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

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