



Australian Government

MSFFDM4013 Produce curved and shaped components for custom furniture

Release: 1

MSFFDM4013 Produce curved and shaped 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 include volume and frequency of evidence and remove duplication with Performance Criteria. Supersedes and is equivalent to MSFFM4003 Produce curved and shaped components for custom furniture.

Application

This unit describes the skills and knowledge required to produce curved and shaped components for custom furniture or similar products in in furnishing or similar 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 or certification requirements apply to this unit at the time of publication. Relevant legislation, industry standards and codes of practice within Australia must be applied.

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 organisation requirements related to producing curved and shaped components 1.2 Read and interpret job specifications to identify processes and materials 1.3 Identify, evaluate and select production materials 1.4 Select and check tools and equipment in accordance with workplace procedures 1.5 Identify, evaluate and select techniques for bending, forming and shaping components for particular applications

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.6 Plan sequence of work, including the starting point, to ensure efficiency and quality of construction 1.7 Develop and document quality-checking procedures for each step of production process
2. Produce components	2.1 Set out component specifications in accordance with work instructions and mark materials following industry best-practice 2.2 Operate tools, machines and equipment in accordance with safety requirements and manufacturer specifications 2.3 Bend, form and shape materials in accordance with production plan 2.4 Check components against specified tolerances, fit and accuracy in job specifications
3. Finalise operation and maintain equipment	3.1 Prepare product for finishing in accordance with design specifications 3.2 Clean, maintain and store carving tools and other equipment in accordance with manufacturer specifications 3.3 Clean and clear work area in accordance with workplace procedures 3.4 Complete required 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 design information and specifications.
- Writing skills to record and report on production.

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 MSFFM4003 Produce curved and shaped 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 MSFFDM4013 Produce curved and shaped 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 include volume and frequency of evidence and remove duplication with Performance Criteria. Supersedes and is equivalent to MSFFM4003 Produce curved and shaped components for custom furniture.

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 six significant timber curved components, five from solid timber and one using ply:
 - one involving shaping from solid timber using hand techniques
 - one involving shaping from solid timber using machine techniques
 - one involving laminating
 - one involving use of heat/steam
 - one involving other techniques
- items must demonstrate appropriate design, use of materials and strength for purpose
- perform checks on tools and equipment used across the six components, relating to appropriateness for use, service standards and safety.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- techniques for timber bending, forming and shaping, including:
 - laminating
 - coopering
 - steam bending
 - saw kerfing
 - hand shaping
 - machine shaping
 - timber shaped by hand or static machine tools
- types and characteristics of materials use in the curving or shaping of components, including:
 - solid timber and timber composites including plywood, medium density fibreboard (MDF) and veneer
 - plastic laminate

- sheet metal
- adhesives
- screws
- nails
- dowels
- decorative finishes
- abrasive paper
- finishing materials
- types, characteristics, uses, limitations and maintenance requirements of solid timbers commonly used in furniture production
- types, characteristics, uses and limitations on hand and power tools used in timber bending, forming and shaping, including:
 - band, cross-cut, mitre, panel and rip saws
 - surface and panel planers
 - belt sanders
 - horizontal borers
 - vertical drill presses
 - dove-tailers
 - pedestal grinders
 - wood-turning lathes
 - veneer guillotines
 - presses
- interpretation of plan representations of furniture design
- techniques for the preparation of drawings/set-outs/rods and geometrical concepts
- workflow within the workplace
- applicable work health and safety, legislative and workplace requirements relevant to the production of curved and shaped components for custom furniture are verified and complied with
- workplace and site standards, requirements, policies and procedures for the production of curved and shaped components for custom furniture

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:
 - hand and power tools
 - a wide range of timber and timber composite materials

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

Links

Companion Volume implementation guides are found in VETNet -

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