



**Australian Government**

# **MSFFM3004 Produce angled and curved furniture using solid timber**

**Release: 1**

# MSFFM3004 Produce angled and curved furniture using solid timber

## Modification History

Release 1 - New unit of competency

## Application

This unit of competency covers constructing and assembling solid timber furniture using angular construction methods.

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

## Pre-requisite Unit

## Competency Field

## Unit Sector

Furniture Making

## 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 | Work instructions are used to determine job requirements, including design, tolerances, process, materials, finish and quantity |
|   |                  | 1.2 | Construction and assembly sequence are planned  |
|   |                  | 1.3 | Procedures are determined for checking quality at each stage of the process   |
|   |                  | 1.4 | Work health and safety (WHS) requirements, including personal protection needs, are observed throughout the work                |
|   |                  | 1.5 | Suitable work area is selected for the task   |
|   |                  | 1.6 | Preparatory drawings and set-outs for tasks are completed   |
|   |                  | 1.7 | Cutting list for components is developed  |

- 1.8 Materials are selected following work instructions
- 1.9 Tools and equipment suitable for construction are identified and checked for safe and effective operation
- 2 Complete construction
  - 2.1 Materials are set out and prepared according to work instructions and components are marked according to industry practices
  - 2.2 Tools, machines and equipment are used in accordance with safety requirements and manufacturer specifications
  - 2.3 Materials are bent and formed in accordance with the plan
  - 2.4 Components are manufactured and checked against set-outs for tolerances, fit and accuracy
  - 2.5 Components are assembled and checked against set-outs for accuracy, fit, twist and distortion
  - 2.6 Doors, drawers and shelves are assembled and fitted
  - 2.7 Product is prepared for final finish, including the removal of bruises, scratches, dents and marks
  - 2.8 Product is checked against plans at identified checkpoints
- 3 Finalise operation and maintain equipment
  - 3.1 Work area is cleaned, hand and/or power tools and equipment are cleaned, maintained and stored in accordance with workplace procedures
  - 3.2 Machinery is cleaned and left in a safe mode
  - 3.3 Faulty and/or defective equipment is tagged and reported in accordance with workplace practices
  - 3.4 Unused hardware is collected and stored for re-use or disposal following workplace procedures
  - 3.5 Waste and scrap materials are dealt with following workplace procedures

## 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.

- Furniture includes:**
- angular structures and curved cabinets incorporating rails and oval design
- Material bending and forming techniques include:**
- steam/heat and bend
  - groove and bend
- Unit scope includes:**
- reading and interpreting plans
  - developing set-outs
  - preparing and using jig, templates and shaped cauls
  - using hand and/or power tools and equipment and operating woodworking machinery
- Unit context includes:**
- WHS requirements, including legislation, building codes, material safety management systems, hazardous substances and dangerous goods code, and local safe operating procedures
  - work is carried out in accordance with legislative obligations, environmental legislation, relevant health regulations, manual handling procedures and organisation insurance requirements
  - competency may be demonstrated in workplaces involved in the manufacture of solid timber domestic furniture, commercial furniture and/or furniture components
- Tools and equipment include:**
- measuring tapes or rulers
  - hammers
  - mallets
  - squares
  - bevels
  - chisels
  - planes
  - hand saws

- power saws
  - power drills/screwdrivers
  - pneumatic tools, compressor and spray equipment
  - clamps
  - screwdrivers
  - pincers
  - band saws
  - cross-cut saws
  - mitre saws
  - panel and rip saws
  - surface planers
  - panel planers
  - belt sanders
  - horizontal borers
  - vertical
  - drill presses
  - dovetailers
  - pedestal grinders
  - wood-turning lathes
  - veneer guillotines and presses
- Machines include:**
- timber
  - adhesives
  - screws
  - nails
  - dowels
  - knock-down fittings
  - glass
  - decorative finishes
  - abrasive paper and finishing materials
- Materials include:**
- that prescribed under legislation, regulations and enterprise policies and practices
- Personal protective equipment includes:**
- 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 LMFFM3004B 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>