



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.

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| 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 |

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| | | 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.

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| Furniture includes: | <ul style="list-style-type: none">angular structures and curved cabinets incorporating rails and oval design |
| Material bending and forming techniques include: | <ul style="list-style-type: none">steam/heat and bendgroove and bend |
| Unit scope includes: | <ul style="list-style-type: none">reading and interpreting plansdeveloping set-outspreparing and using jig, templates and shaped caulsusing hand and/or power tools and equipment and operating woodworking machinery |
| Unit context includes: | <ul style="list-style-type: none">WHS requirements, including legislation, building codes, material safety management systems, hazardous substances and dangerous goods code, and local safe operating procedureswork is carried out in accordance with legislative obligations, environmental legislation, relevant health regulations, manual handling procedures and organisation insurance requirementscompetency may be demonstrated in workplaces involved in the manufacture of solid timber domestic furniture, commercial furniture and/or furniture components |
| Tools and equipment include: | <ul style="list-style-type: none">measuring tapes or rulershammersmalletssquaresbevelschiselsplaneshand saws |

	• power saws • power drills/screwdrivers • pneumatic tools, compressor and spray equipment • clamps • screwdrivers • pincers
Machines include:	• 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
Materials include:	• timber • adhesives • screws • nails • dowels • knock-down fittings • glass • decorative finishes • abrasive paper and finishing materials
Personal protective equipment includes:	• that prescribed under legislation, regulations and enterprise policies and practices
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>

Assessment Requirements for MSFFM3004 Produce angled and curved furniture using solid timber

Modification History

Release 1 - New unit of competency

Performance Evidence

- Interpret work order and locate and apply relevant information
- Apply safe handling requirements for equipment, products and materials, including use of personal protective equipment
- Follow work instructions, operating procedures and inspection processes to:
 - minimise the risk of injury to self or others
 - prevent damage to goods, equipment or products
 - maintain required production output and product quality
- Produce a minimum of two (2) significant timber products which must include:
 - one (1) curved cabinet with rails
 - one (1) item involving oval design using traditional construction methods and jointing
- Conduct operator maintenance on machines and related tools and equipment
- Use mathematical ideas and techniques to correctly complete measurements, calculate area and estimate material requirements
- 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
- 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

Knowledge Evidence

- Types, characteristics, uses and limitations of solid timbers most common to furniture production
- Interpretation of plan representation of furniture design
- Preparation of drawings/set-outs/rods and geometrical concepts
- Identification of hand and/or power tools, materials, equipment, processes and procedures
- Work flow in relation to furniture production

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 plans, tools and equipment required to produce angles and curved furniture using solid timber.

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