



Australian Government

MSFFM3002 Construct furniture using leg and rail method

Release: 1

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Modification History

Release 1 - New unit of competency

Application

This unit of competency covers following plans to construct and assemble furniture using leg and rail construction.

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/set-outs/rods 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 | Material is set out and prepared according to work instructions and components are marked according to workplace procedures |
| | 2.2 | Tools, machines and equipment are used in accordance with safety requirements and manufacturer specifications |
| | 2.3 | Components are manufactured, including any specified shapes, angles or curves, and checked against set-outs and job requirements |
| | 2.4 | Components are assembled using jigs and/or clamps and fastenings |
| | 2.5 | Adhesives are applied according to workplace procedures and/or manufacturer instructions |
| | 2.6 | Joining process is undertaken according to workplace procedures |
| | 2.7 | Assembled furniture is checked for compliance with specifications |
| | 2.8 | Furniture is finished to suitable state for surface preparation |
| | 2.9 | Any non-conformity with the required quality standards is rectified |
| 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 to be constructed using the leg and rail method include:	• dining • occasional • hall and side tables • dining and occasional chairs • cabinets
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 furniture, domestic furniture, commercial furniture, kitchen and bathroom cabinets and/or furniture components
Traditional jointing methods include:	• mortise and tenon • mitre • dowel • bridle
Tools and equipment include:	• measuring tapes or rulers • hammers • mallets • squares • bevels • chisels • planes

	• hand saws • power saws • cordless drills/screwdrivers • power drills • fixing and jointing devices • pneumatic tools, compressor and spray equipment • jigs • clamps and pincers
Machines include:	• band saws • cross-cut saws • jig saws • panel and rip saws • surface planers • panel planers • belt sanders • horizontal borers • vertical drill presses • furniture mortise and tenoner • dovetailers • pedestal grinders • wood-turning lathes • veneer guillotines and presses
Materials include:	• timber • manufactured board • adhesives • screws • nails • dowels • knock-down fittings
Checking of constructed product is to cover:	• squareness, alignment and wind • hardware, fittings and attachments • functionality and tolerances • meets design specifications • distortion and product faults
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 LMFFM3002B Construct furniture using leg and rail method.

Links

Companion Volume implementation guides are found in VETNet -

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