



Australian Government

MSFFP2006 Make simple timber joints

Release: 1

MSFFP2006 Make simple timber joints

Modification History

Release 1. New unit

Application

This unit specifies the competency required to make simple timber joints by hand operations.

It is designed for use in a pre-employment skills introduction program and is suitable for use in institutional-based vocational programs. Skills development will take place under direct supervision.

This unit is not to be used in a traineeship or apprenticeship training program or associated qualifications. It is only to be used in pre-employment programs and carries no credit towards apprenticeship/trade and other qualification types in manufacturing and furnishings.

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

Pre-requisite Unit

Nil

Competency Field

Unit Sector

Furniture Making Pathways

Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

1	Determine job requirements	1.1	Identify job requirements, including product purpose, furniture style and joint type, from specifications, drawings, designs, project sheets or work instructions
		1.2	Identify the workplace, health and safety (WHS) practices and procedures to be used
2	Plan and prepare	2.1	Select and check tools, equipment and materials prior to

	for work		use to ensure they are appropriate for the work, serviceable and in a safe condition
		2.2	Select adhesives and fasteners to match the joint type
3	Make simple joint	3.1	Comply with work, health and safety (WHS) requirements at all times
		3.2	Use appropriate personal protective equipment (PPE) in accordance with procedures
		3.3	Mark out cutting and joining lines to suit joint type
		3.4	Check measurements and calculations for accuracy to ensure quality outcomes
		3.5	Construct the joints using furniture sector hand and power tools
		3.6	Join timber in accordance with project sheets or work instruction requirements
		3.7	Use fasteners, adhesives and appropriate clamping systems to make joints firm, where required
		3.8	Check finished joint against quality requirements
4	Check work area and maintain equipment	4.1	Clean equipment and inspect for serviceable condition and store and report faulty and/or defective equipment in accordance with procedures
		4.2	Store or dispose of materials according to procedures
		4.3	Clean and maintain work area

Foundation Skills

This section describes those required skills (reading, writing, oral communication and numeracy) that are essential to workplace performance in this unit of competency.

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

This field allows for 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.

PPE includes one (1) or more of the following:

- safety glasses
- face and head protection
- protective footwear
- protective clothing
- respiratory protection
- ear protection
- gloves

Joints include two (2) or more of the following:

- butt joint
- dowel
- domino
- biscuit joint
- mitre

Tools and equipment include one (1) or more of the following:

- chisels
- mallets
- vices
- dovetail saws
- tenon saws
- coping saws
- files
- hand drills
- power drills
- dowel jigs and power routers
- biscuit machine
- domino machine
- clamps and cramps

Adhesives include one (1) or more of the following:

- polyurethane
- cyanoacrylate
- PVA
- urea formaldehyde

Timbers include the following:

- softwood
- hardwood

Quality requirements include:

- visual appearance
- tolerance
- gaps or play in joints and strength

Unit Mapping Information

New unit

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 MSFFP2006 Make simple timber joints

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Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy the requirements of the elements and performance criteria and include:

- following work instructions, procedures and safe work practices
- identifying and interpreting project sheets, specifications, drawings and other relevant information in making simple timber joints
- applying safe handling requirements for equipment, products and materials, including the use of PPE
- selecting appropriate joints types for the furniture item and appropriate adhesive types
- using mathematical ideas and techniques to complete measurements, including calculating area and estimating material requirements
- using tools and equipment in a safe and effective manner
- producing a minimum of two (2) different simple timber joints in hardwood and softwood timbers using furniture sector hand and power tool operations
- inspecting finished timber joints against quality requirements
- minimising wastage of resources, including materials, time and money
- communicating and working effectively and safely with others.

Knowledge Evidence

Evidence required to demonstrate the required knowledge for this unit must be relevant to and satisfy the requirements of the elements and performance criteria and include knowledge of:

- safe work practices and procedures and use of PPE
- advantages and disadvantages of hardwood and softwood timbers
- types of timber joints and where best utilised
- types, characteristics, properties and selection criteria of adhesives used
- capabilities, limitations and safety requirements of tools and equipment
- matching requirements of adhesives and fasteners to timbers/materials used
- assembly process in relation to the timber joint being made.

Assessment Conditions

- Assessors must:
 - satisfy the assessor competency requirements that are in place at the time of the assessment as set by the VET regulator

- have vocational competency in making simple timber joints at least to the level being assessed with relevant industry knowledge and experience
- Assessment must occur in a sufficiently rigorous simulated environment that reflects realistic workplace situations.
- Conditions for assessment must include access to all tools, equipment, materials and documentation required, including relevant procedures, product and manufacturing specifications.
- Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

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