



Australian Government

MSFFM2017 Hand make timber joints

Release: 1

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Modification History

Release 1. Changes to code, application, elements, performance criteria, assessment requirements. Foundation skills added. Range of conditions removed. Assessment requirements changed.

Application

This unit describes the skills and knowledge required to make timber joints using hand and portable power tools. Workers with this competency complete routine tasks in industries such as furniture and cabinet making.

No licensing or certification requirements exist at the time of publication. Relevant legislation, industry standards and codes of practice within Australia must be applied.

Competency Field

Cabinetry and furniture

Elements and Performance Criteria

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Prepare for task	1.1 Identify task requirements, including joint type, and purpose and style of finished product from work instructions 1.2 Identify and follow work health and safety requirements 1.3 Select tools and equipment to meet task requirements and check they are safe and functional 1.4 Select materials, adhesives and fasteners to meet task quality requirements
2. Make joint	2.1 Mark out cutting and joining lines to suit joint type 2.2 Check measurements are within tolerances to ensure quality outcomes 2.3 Join timber in accordance with workplace requirements 2.4 Use fasteners and adhesives to make joints firm based on task requirements 2.5 Confirm finished joint meets task quality requirements and rectify any deficiencies

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
3. Finalise task	3.1 Clean work area, safely dispose of rubbish and identify items for recycling in accordance with workplace procedures and environmental standards 3.2 Clean tools and complete routine maintenance in accordance with workplace procedures 3.3 Identify, tag and report faulty tools and equipment in accordance with workplace procedures 3.4 Complete task documentation in accordance with workplace procedures

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

- Reading skills to interpret familiar workplace procedures
- Writing skills to communicate simple information in familiar workplace documents and make clear and legible markings on timbers
- Numeracy skills to measure lengths and angles and make basic calculations.

Other foundation skills essential to performance are explicit in the performance criteria of this unit.

Unit Mapping Information

Release 1. Supersedes and is equivalent to MSFFM2006 Hand make timber joints.

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 MSFFM2017 Hand make timber joints

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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:

- choose and make appropriate joints, including 4 different joint types and 2 types of adhesive, using only handheld tools while undertaking:
 - box construction
 - carcass construction
 - drawer construction
 - frame construction.
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Knowledge Evidence

There must be evidence the candidate has knowledge of:

- workplace procedures for:
 - work health and safety
 - quality assurance:
 - visual appearance – alignment, neatness
 - tolerance
 - gaps or play in joints and strength
 - reporting of faults
- workflow for furniture production
- joint types and their suitability for different purposes, including at least four of the following:
 - dowel
 - mortice and tenon
 - dovetail
 - lap joint
 - biscuit joint
 - finger joint
 - housing joint

- mitre joint
- bridle joint
- characteristics of different timber types commonly used in joint construction
- characteristics of different adhesive types commonly used in joint construction
- function of tools commonly used for hand construction of joints, including at least 5 of the following:
 - chisel
 - mallet
 - mortise gauges
 - vernier calipers
 - vice
 - dovetail saw
 - tenon saw
 - coping saw
 - plane
 - file
 - hand drill
 - power drill
 - dowel jig
 - power router
 - portable biscuit machines
 - power planers
 - power saw
- personal protective equipment (PPE) required for hand construction of joints.
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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:
 - joining tools and equipment **required for performance evidence**
 - PPE
 - timber materials to be joined
 - adhesives
 - workplace procedures.
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