



Australian Government

MSFFM3034 Set up, operate and maintain joining machines

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 safely and efficiently set up, operate and maintain joining machines using their full technical potential and capacities to complete varied joints such as angle, compound angle, mortise and tenon and scribed

Workers with this competency follow established procedures in timber technology industries, using discretion, judgment and problem solving to identify and troubleshoot product and machine issues.

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

Wood machining

Elements and 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 Determine task requirements and joining specifications from work documentation 1.2 Identify and follow work health and safety requirements 1.3 Select material for machining and check it meets task quality requirements 1.4 Check that cutting tools, jigs and other required tools and equipment are available, safe and functional 1.5 Identify procedures for waste minimisation and energy efficiency while completing task

2 Set up machines	2.1 Check that emergency stops, gauges, guards, controls and safety equipment are functional prior to machine start-up 2.2 Complete machine settings and adjust to meet task requirements in compliance with manufacturer instructions 2.3 Complete trial runs to check that machine is fully functional and that finished work meets task accuracy and quality requirements 2.4 Identify and make necessary adjustments to machine settings to meet task quality and efficiency requirements
3 Operate machines	3.1 Follow machine start-up procedures in accordance with manufacturer instructions 3.2 Position material to be joined in accordance with manufacturer instructions, tooling requirements, and safe handling and workplace procedures 3.3 Operate machine in accordance with its designed capacity and purpose, and to manufacturer recommendations 3.4 Monitor machine operation to ensure product quality and output 3.5 Check waste quantities and make adjustments to minimise it 3.6 Identify items that do not meet quality requirements and recycle or discard in accordance with workplace procedures 3.7 Recognise problems with product or machine operation and resolve or report to appropriate persons in accordance with workplace procedures
4 Finalise task	4.1 Clean work area, safely dispose of waste and identify items for recycling in accordance with workplace procedures and environmental standards 4.2 Clean machinery, complete routine maintenance and leave in safe mode in accordance with workplace procedures 4.3 Identify, tag and report faulty equipment in accordance with workplace procedures 4.4 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, work documentation including drawings, and product specifications
- Writing skills to communicate information in familiar workplace documents
- Numeracy skills to measure and calculate lengths, degrees and areas and estimate material requirements

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 MSFFM3014 Set up, operate and maintain joining machines.

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 MSFFM3034 Set up, operate and maintain joining machines

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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:

- set up and operate two of the following machines and use with at least 2 different types of material in accordance with workplace procedures
 - mortice machine
 - tenon machine
 - dovetail machine
- complete operator maintenance on each of the 2 machines at least once, including:
 - checking that guards, safety switches, and machine jigs and attachments are functioning correctly
 - servicing machine lubrication points
 - identifying tooling needing sharpening and repair
 - checking that drive belts are undamaged and correctly tensioned
 - cleaning machine at the end of a production run
 - checking that electrical systems are functioning, and identifying issues for referral to qualified electrician
 - completing maintenance documentation.
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Knowledge Evidence

There must be evidence the candidate has knowledge of:

- workplace procedures for:
 - work health and safety
 - quality assurance and tolerance levels
 - reporting of machinery faults and material defects
- risk control measures, including personal protective equipment (PPE), for the following hazards
 - cutting and crushing hazard
 - objects and particles thrown by machine
 - noise

- airborne contaminants
- slips, trips and falls
- manual handling injuries
- joining processes and techniques
- characteristics and response to the joining process of these materials:
 - solid timber
 - manufactured board
- the function of other tools and materials typically used in the joining process:
 - machine-specific tools
 - jigs and fixtures
 - machine consumables
 - oils and lubricants and trial materials.
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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:
 - work documentation
 - joining machines (2 different types) required for performance evidence
 - PPE
 - unprocessed materials for joining
 - workplace procedures.

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

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