



Australian Government

FWPTMM2202 Machine material

Release: 1

FWPTMM2202 Machine material

Modification History

Release	Comment
1	Replaces equivalent unit FPITMM2202B Machine material, which was first released with FPI11 Forest and Forest Products Training Package Version 2.2. This is the first release of this unit in the new standards format.

Application

This unit of competency describes the outcomes required to operate basic static machines used for sawing, planing, sanding and drilling and complete non-specialist maintenance. Work is completed in a forest and wood products factory setting.

The unit applies to job roles including saw operator, timber manufacturing worker, timber products worker, customer service/sales assistant (timber merchandising), woodmachinist.

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

Pre-requisite Unit

Nil

Unit Sector

Timber Manufactured Products

Timber Merchandising

Elements and Performance Criteria

<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the range of conditions.</i>
1. Prepare for machining	1.1 Review work order and check with appropriate personnel. 1.2 Obtain type and quantity of material to be machined from storage location. 1.3 Select appropriate equipment and check for operational effectiveness in line with manufacturer's recommendations.

	1.4 Plan material machining process in line with work order.
2. Set up machines	2.1 Check safety equipment, including emergency stops, gauges, guards and controls. 2.2 Complete machine settings and adjustments in line with job requirements and manufacturer's instructions. 2.3 Complete trial runs to check machine operation, accuracy and quality of finished work. 2.4 Accept or reject trialled material and dispose of in line with environmental protection practices. 2.5 Adjust machine setting as necessary.
3. Operate machines	3.1 Complete equipment pre start-up checks in line with organisational procedures. 3.2 Operate machine in line with manufacturer's instructions, safe operating procedures and environmental protection practices. 3.3 Monitor machine operation to ensure product quality and output. 3.4 Repair sub-quality items to minimise waste and recycle or discard others in line with environmental protection practices. 3.5 Stack material safely in designated location in line with work order requirements.
4. Complete operator maintenance	4.1 Follow organisational safety procedures to lock-out equipment. 4.2 Remove and replace fixed cutter heads in line with organisational procedures. 4.3 Joint straight cutters in line with organisational procedures. 4.4 Record and report machining outcomes, equipment faults and maintenance requirements to appropriate personnel.

Foundation Skills

This section describes those core and employment skills that are essential to performance and are not explicit in the performance criteria.

Numeracy skills to:	identify quantities of required material within work plans and count raw materials.
Oral communication skills to:	- ask questions and actively listen to clarify contents of work orders - make accurate verbal reports on processing and equipment faults.

Reading skills to:	• interpret: • WHS and other organisational procedures • work orders • manufacturers' instructions and maintenance recommendations.
Writing skills to:	• complete accurate basic reports on machining outcomes, equipment faults and maintenance requirements.
Planning and organising skills to:	• efficiently and logically sequence the stages of preparation and production using work order to guide activities.
Problem-solving skills to:	• identify sub-quality materials through trial and inspection; make machine adjustments, repair or discard • recognise faulty equipment and resolve by reporting or rectifying.
Technology skills to:	• select, use and maintain appropriate machinery, tools and personal protective equipment used for machining activities.

Range of Conditions

Not Applicable

Unit Mapping Information

FPITMM2202B Machine material

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47>

Assessment Requirements for FWPTMM2202 Machine material

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Performance Evidence

A person demonstrating competency in this unit must satisfy all of the elements, performance criteria and foundation skills of this unit. If a specific volume or frequency is not stated below, then evidence must be provided that the following requirements have been performed on at least one occasion:

- perform sawing, planing, drilling and sanding operations on timbers and boards from the following list, each in line with an individual work order:
 - native timber species
 - imported timber species
 - dressed timber
 - in-the-rough timber
 - stress and non-stress graded timber
 - preservative treated timber
 - medium density fibreboard
 - laminated veneer
 - chipboard
 - fibreboard and other manufactured board products
 - coated and/or treated timber products
 - beams or laminated beams
- complete operator maintenance on at least one occasion for each of these types of equipment:
 - sawing equipment
 - planing equipment
 - drilling equipment

- sanding equipment

Knowledge Evidence

A person competent in this unit must be able to demonstrate knowledge of:

- environmental protection practices for forest products factory settings:
 - reducing water and energy use
 - cleaning of plant, tools and equipment
 - disposing of, recycling and reusing timber and other waste
- storage layout and categories for:
 - raw materials
 - stacking finished materials
- machining characteristics of timber and timber defects
- cutting patterns and sequences
- industry standard cross-sections and lengths
- types of machining tools and equipment; their purpose, features, operation and basic non-specialist repair and maintenance:
 - measuring equipment
 - docking saws
 - bench saws
 - panel saws
 - bandsaws
 - panel planers
 - surface planers
 - drill presses
 - boring machines
 - edge sanders
 - profile sanders
 - panel sanders
 - stroke sanders
- methods for assessing saw blade, knife, drill and sanding belt condition
- organisational procedures specific to machining activities:
 - workplace health and safety with particular emphasis on equipment lock out
 - use and maintenance of equipment
 - communication reporting lines
 - recording and reporting cutting process and equipment faults.

Assessment Conditions

The following resources must be made available:

- machining tools and equipment:

- measuring equipment
- docking saws
- bench saws
- panel saws
- bandsaws
- panel planers
- surface planers
- drill presses
- boring machines
- edge sanders
- profile sanders
- panel sanders
- stroke sanders
- maintenance tools and equipment
- consumable components for replacement during operator maintenance
- personal protective equipment suitable for machining activities
- commercially available timbers and boards
- manufacturers' instructions for use and maintenance of equipment
- work order for machining activities with specific instructions for the machining and storage of timber and timber products
- relevant personnel for the purposes of communicating information
- template reports for recording processing and equipment faults
- organisational procedures for machining activities.

Competency is to be assessed in the workplace or a simulated environment that accurately reflects performance in a real workplace setting.

Assessor requirements

- hold the appropriate assessor competency standards as outlined in regulations; and
- be able to demonstrate vocational competencies at least to the level being assessed; and
- be able to demonstrate how they are continuing to develop their VET knowledge and skills as well as maintaining their industry currency and assessor competence.

Links

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