



Australian Government

FWPCOT2232 Cut material to shape using a saw

Release: 1

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Modification History

Release	Comment
1	Replaces equivalent unit FPICOT2232B Cut material to shape using a saw, 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 prepare and cut material to shape using sawing equipment in order to produce shaped timber products. Work is completed in forest products factory setting and includes operator maintenance.

The unit applies to Production Worker, Sawmill Worker, Manufacturing Assistant, Saw Operator.

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

ELEMENTS	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>

ELEMENTS	PERFORMANCE CRITERIA
1. Prepare for shaping	1.1 Review work order and where required check with appropriate personnel. 1.2 Identify type and quantity of materials to be shaped and obtain from storage location. 1.3 Select appropriate equipment and check for operational effectiveness in line with manufacturer's recommendations. 1.4 Identify profile to be cut and select cutting blades.
2. Set up shaping equipment	2.1 Follow lock out procedures, select and attach machine guides to machinery. 2.2 Check saw blade for sharpness and correct alignment. 2.3 Use equipment in line with organisational safety procedures, manufacturer's instructions environmental protection practices. 2.4 Set cut in line with required shape and to minimise waste. 2.5 Dispose of off-cuts in line with environmental protection practices. 2.6 Stack material stack in close proximity to maximise ease of machine feeding. 2.7 Test equipment set-up for correct alignment through trial run on timber and adjust as required.
3. Cut material to shape	3.1 Reject material with defects and dispose of in line with environmental protection practices. 3.2 Feed material into machine at feed rate prescribed by organisational requirements. 3.3 Follow, maintain and adjust cutting sequence to produce required quantity and maximise feed rate. 3.4 Check jig or shape line regularly and adjust to maintain desired cut. 3.5 Stack material safely in designated location in line with work order requirements. 3.6 Identify routine processing and equipment faults and resolve or report to appropriate personnel. 3.7 Complete production and quality records and report in line with organisational procedures.

ELEMENTS	PERFORMANCE CRITERIA
4. Complete operator maintenance	4.1 Follow organisational safety procedures to lock out equipment. 4.2 Check saw blades for bluntness or damage. 4.3 Remove and replace saw blades in line with manufacturer's recommendations. 4.4 Dispose of used blades in line with organisational procedures and environmental protection practices. 4.5 Complete basic non-specialist maintenance for equipment. 4.6 Keep machine area clear of dust, off-cuts and debris. 4.7 Record and report 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 material quantities required in work orders and count raw materials • calculate feed rates to optimise quality and quantity of production output • complete routine production records involving dimensions and quantities tallied against orders.
Oral communication skills to:	• ask open and closed probe questions and actively listen to clarify contents of work orders • make accurate verbal reports on processing and equipment faults.
Reading skills to:	• interpret: • workplace health and safety and other organisational procedures • work orders • manufacturers' instructions and maintenance recommendations.
Writing skills to:	• complete accurate basic records for production 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 and dispose of defective material • 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 shaping activities.

Range of Conditions

Not Applicable

Unit Mapping Information

FWPCOT2232B Cut material to shape using a saw

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 FWPCOT2232 Cut material to shape using a saw

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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:
- follow organizational policies and procedures relevant to cutting material to shape using a saw
- cut one or more of the following types of material to shape in line with a work order and prescribed organisational specifications:
 - 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
- complete these types of basic non-specialist maintenance:
- cleaning the machine of wood chips and sawdust
- replacing blunt cutters or saw blades
- inspecting machine parts for wear or damage, including guards

- greasing and lubricating moving parts
- checking the operation of emergency stop buttons and lock out systems.
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Knowledge Evidence

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

- types of tools and equipment used for cutting material to shape; their purpose, features, operation and basic non-specialist repair and maintenance:
 - measuring equipment
 - band saws
 - jig saws
 - machine guides
- methods for assessing saw blade condition
- shapes, feed rates and finish
- environmental protection practices for forest products factory settings:
 - reducing water and energy use
 - cleaning plant, tools and equipment
 - disposing of, recycling and reusing timber
- storage layout and categories for:
 - raw materials
 - stacking finished materials
- typical timber defects and effect on producing a quality finished shaped timber product:
 - warp
 - wane
 - cupping
 - shakes
 - insect defects
 - knots
 - resin pockets
- organisational procedures specific to cutting material to shape:
 - workplace health and safety with particular emphasis on equipment lock out
 - use and maintenance of equipment
 - communication reporting lines
 - recording and reporting production outcomes and equipment faults.
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Assessment Conditions

The following resources must be made available:

- tools and equipment used to cut materials to shape:

- measuring equipment
- band saws
- jig saws
- machine guides
- maintenance tools and equipment for saws
- consumable components; saw blades
- personal protective equipment suitable for cutting materials to shape
- a diverse, comprehensive and commercial product range of timber
- manufacturers':
 - instructions for equipment use
 - recommendations for cleaning, repairing and maintaining
- work order with specific instructions for cutting and shaping timber
- template documents for recording production outcomes and equipment faults
- organisational procedures for cutting material to shape.

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

Assessor requirements

Assessors must:

- 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.
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