



Australian Government

FWPCOT3244 Cut material to profile

Release: 1

FWPCOT3244 Cut material to profile

Modification History

Release	Comment
1	Replaces equivalent unit FPICOT3244B Cut material to profile, 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 cut material to a profile with shaping equipment to produce moulded timber products. Work is completed in a forest products factory setting and includes operator maintenance.

The unit applies to Benchman, Machine Operator, Timber Products Technician, Production technician, Press operator.

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

Pre-requisite Unit

Nil

Unit Sector

Common Technical

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 profiling	1.1 Review work order and where required check with appropriate personnel. 1.2 Select appropriate personal protective and other equipment and check for operational effectiveness. 1.3 Obtain type and quantity of material for profiling from storage location. 1.4 Identify profile to be cut and select cutting blades.

2. Set up profiling equipment	2.1 Use equipment in line with organisational safety procedures, manufacturer's instructions and environmental protection practices. 2.2 Follow lock-out procedures, select and attach machine guides and install cutting blades. 2.3 Set depth of cut or profile in line with required shape and to minimise waste. 2.4 Stack material in close proximity to maximise ease of machine feeding. 2.5 Test equipment set up for correct profile alignment through trial run and adjust as required.
3. Cut material to profile	3.1 Feed material into machine at feed rate prescribed by organisational requirements. 3.2 Follow, maintain and adjust cutting sequence to produce required quantity and maximise feed rate. 3.3 Check profiling process regularly and adjust to maintain desired depth and profile. 3.4 Dispose of incorrect cuts, off cuts and defective material in line with environmental protection practices. 3.5 Stack material safely in designated location in line with work order.
4. Complete operator maintenance	4.1 Follow organisational safety procedures to lock out equipment. 4.2 Check cutting blades for bluntness or damage. 4.3 Remove and replace cutting blades in line with manufacturer's recommendations. 4.4 Keep machine area clear of dust and debris in line with organisational safety procedures. 4.5 Record and report production 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 orders and count numbers of panels to be profiled • complete basic calculations of required depth of cut or profile to
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	- determine equipment set up - measure finished dimensions against specifications and allowable tolerances.
Oral communication skills to:	ask open and closed probe questions and actively listen to clarify contents of work orders.
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.

Range of Conditions

Not Applicable

Unit Mapping Information

FPICOT3244B Cut material to profile

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 FWPCOT3244 Cut material to profile

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1	Replaces equivalent unit FPICOT3244B Cut material to profile, 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. Assessment requirements now specify the performance and knowledge evidence, as well as assessment conditions for this unit of competency. These sections simplify and replace components used in the previous unit format, including Required Skills and Knowledge, Evidence Guide and Range Statement

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 organisational policies and procedures relevant to cutting material to profile
- cut material to profile in line with a work order and prescribed organisational specifications
- conduct operator maintenance
- stack batches of cut material in line with organisational requirements and WHS regulations
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Knowledge Evidence

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

- environmental protection practices for forest products factory settings:
 - cleaning plant, tools and equipment
 - disposing of, recycling and reusing timber and other waste
 - reducing water and energy use
- characteristics of timber and timber features
- storage systems and labelling procedures including
 - storage racks
 - storage bays
 - bins

- stacks
- pallet boxes
- modularised storage components
- temporary stacking bays
- storage layout and categories for:
 - raw materials
 - stacking finished panels
- typical timber defects and how they affect ability to produce quality profiled product:
 - warp
 - wane
 - cupping
 - shakes
 - insect defects
 - knots
 - resin pockets
- range of common profiles and applicable terminology including:
 - quad
 - beading
 - mouldings
 - shaped beams
 - architraves
 - skirting boards
 - scotia
- common cutting patterns used to achieve common profiles
- range of feed rates and how they affect production output and finished quality of material
- purpose, features and operation of equipment used to cut materials to profile:
 - measuring equipment
 - multi-head planing machines (four sided)
 - spindle moulders
 - routing machines
 - shaping machines
 - machine guides
- methods for assessing cutting blade condition
- organisational procedures specific to cutting materials to profile:
 - workplace health and safety with particular emphasis on equipment lock out and use of personal protective equipment
 - communication reporting lines
 - recording and reporting production outcomes, equipment faults and maintenance requirements.

Assessment Conditions

The following resources must be made available:

- measuring equipment
- profiling equipment including one or more of the following:
 - multi-head planing machines (four siders)
 - spindle moulders
 - routing machines
 - shaping machines
- machine guides
- maintenance tools and equipment for removing and replacing cutting blades
- consumable profile cutting blades in various shapes and sizes
- personal protective equipment suitable for cutting material to profile
- suitable material including one or more of the following:
 - dressed timber
 - in-the-rough timber
 - stress and non-stress graded timber
 - preservative treated timber
 - medium density fibreboard
 - laminated veneer
 - chipboard
 - fibreboard
 - coated and/or treated timber products
 - beams, including laminated beams
- manufacturers' instructions for use and maintenance of equipment
- work order with specific instructions for cutting material to profile
- template documents for recording production outcomes, equipment faults and maintenance requirements
- organisational policies and procedures for cutting material to profile.

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.

Links

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