



Australian Government

FWPCOT3299 Cut timber or engineered wood product to profile

Release: 1

FWPCOT3299 Cut timber or engineered wood product to profile

Modification History

Release	Comments
Release 1	This version released with FWP Forest and Wood Products Training Package Version 5.0.

Application

This unit of competency describes the skills and knowledge required to use profiling equipment for cutting timber or engineered wood products to a profile to produce moulded products in a manufacturing facility.

The unit applies to individuals who work as benchman, machine operators, timber products technicians, production technicians and press operators.

All work must be carried out to comply with workplace procedures, according to state/territory health and safety regulations, legislation and standards that apply to the workplace.

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

Pre-requisite Unit

Nil

Unit Sector

Common Technical (COT)

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.</i>
1. Prepare for profiling timber or engineered wood products	1.1 Review work order to determine job requirements and, where required, seek clarification from appropriate personnel 1.2 Review workplace health and safety procedures, including the use of personal protective equipment, equipment lock-out and safe manual handling techniques

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.3 Identify, assess and take actions to mitigate risks and hazards associated with cutting timber or engineered wood products to profile 1.4 Identify workplace environmental protection procedures for minimising and disposing of waste material, cleaning tools and equipment, and maximising energy efficiency 1.5 Obtain the type and quantity of material for profiling from a storage location 1.6 Identify profile to be cut, and select appropriate cutting blades according to specifications
2. Set up profiling equipment	2.1 Use equipment according to workplace health and safety procedures, manufacturer 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 according to the 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 a trial run, and adjust as required
3. Cut timber or engineered wood product to profile	3.1 Feed timber or engineered wood product into the machine at feed rate prescribed by organisational requirements 3.2 Follow, maintain and adjust cutting sequence to produce the 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 according to environmental protection practices 3.5 Stack material safely in designated location according to work order
4. Complete operator maintenance	4.1 Lock out equipment according to workplace health and safety procedures and manufacturer recommendations 4.2 Check cutting blades for bluntness or damage according to manufacturer specifications 4.3 Remove and replace cutting blades according to manufacturer

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	recommendations 4.4 Keep machine area clear of dust and debris according to workplace health and safety procedures 4.5 Record and report production outcomes, equipment faults and maintenance requirements to appropriate personnel

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential for performance in this unit of competency but are not explicit in the performance criteria.

Skill	Description
Numeracy	- Identifies quantities of required material within work orders, and counts numbers of panels to be profiled - Completes basic calculations of required depth of cut or profile to determine equipment set-up - Measures finished dimensions against specifications and allowable tolerances
Navigate the world of work	Understands main tasks, responsibilities and boundaries of own role
Interact with others	Uses modes of communication suitable for the purpose to confirm and clarify understanding
Get the work done	Recognises and responds to routine problems

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPCOT3299 Cut timber or engineered wood product to profile	FWPCOT3265 Cut timber or engineered wood product to profile	Reworded performance evidence for clarity	Equivalent unit

Links

Companion Volumes, including Implementation Guides, are available at VETNet: -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47>

Assessment Requirements for FWPCOT3299 Cut timber or engineered wood product to profile

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Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria of this unit.

There must be evidence that, on at least one occasion, the individual has:

- cut one or more of the following timber or engineered wood products to profile according to work order and prescribed workplace specifications:
 - 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
 - glued laminated timber (glulam)
 - cross-laminated timber (CLT)

In doing the above job, the individual has:

- followed relevant workplace health and safety and environmental protection procedures to complete the work order
- conducted operator maintenance on profiling equipment
- stacked batches of cut timber or engineered wood product safely.

Knowledge Evidence

An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:

- health and safety hazards or risks related to operating profiling equipment for timber or engineered wood products as identified through risk assessments, manufacturer technical information, regulations and industry health and safety guides
- workplace procedures specific to cutting timber or engineered wood product to profile:
 - health and safety, with particular emphasis on equipment lock-out and the use of personal protective equipment (PPE)
 - use of timber profiling equipment
 - communication reporting lines
 - recording and reporting production outcomes, equipment faults and maintenance requirements
- environmental protection practices for timber manufacturing facilities:
 - cleaning plant, tools and equipment
 - disposing of, recycling and reusing timber and other waste
 - reducing water and energy use
- characteristics of timber or relevant engineered wood product
- 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 timber products
- typical timber or engineered wood product defects and how they affect the 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 quality of the finished product
- purpose, features and operation of equipment used to cut timber or engineered wood product to profile:
 - measuring equipment
 - multi-head planing machines (four siders)
 - spindle moulders
 - routing machines
 - shaping machines
 - machine guides
- methods for assessing cutting blade condition.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated in an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - 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
 - PPE suitable for cutting material to profile
 - timber or engineered wood product suitable for profiling operations
- specifications:
 - manufacturer instructions for use and maintenance of equipment
 - work order with specific instructions for cutting timber or engineered wood product to profile
 - workplace policies and procedures for cutting timber or engineered wood product to profile, including health and safety and emergency procedures and environmental protection procedures
 - template documents for recording production outcomes, equipment faults and maintenance requirements.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

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