



Australian Government

FWPCOT2262 Cut material to shape using a saw

Release: 1

FWPCOT2262 Cut material to shape using a saw

Modification History

Release	Comments
Release 1	This version released with FWP Forest and Wood Products Training Package Version 6.0.

Application

This unit of competency describes the skills and knowledge required to prepare and cut material to shape using sawing equipment to produce shaped timber products and to perform basic operator maintenance of sawing equipment.

The unit applies to production workers, sawmill workers, manufacturing assistants and saw operators who undertake specified activities under the instruction of more experienced workers.

No licensing, legislative 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 shaping	1.1 Determine job requirements from work order or instruction and, where required, seek clarification from appropriate person 1.2 Confirm safety and environmental requirements for the task according to workplace procedures 1.3 Select, fit and use required personal protective equipment (PPE) 1.4 Identify type and calculate quantity of materials to be shaped, and

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	obtain from storage location 1.5 Select equipment and check for operational effectiveness according to manufacturer specifications 1.6 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 alignment 2.3 Use equipment according to workplace safety and environmental procedures and manufacturer instructions 2.4 Set cut in line with required shape and to minimise waste 2.5 Stack materials in close proximity to maximise ease of machine feeding 2.6 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 according to workplace and environmental requirements 3.2 Feed material into machine at feed rate prescribed in manufacturer instructions 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 according to workplace requirements 3.6 Identify routine processing and equipment faults and resolve or report to appropriate person 3.7 Complete production and quality records according to workplace procedures
4. Complete operator maintenance	4.1 Follow safety procedures to lock out equipment according to workplace procedures 4.2 Check saw blades for bluntness or damage 4.3 Remove and replace saw blades according to manufacturer recommendations and send used blades for re-sharpening or disposal 4.4 Complete basic non-specialist maintenance for equipment

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	according to workplace procedures 4.5 Keep machine area clear of dust, offcuts and debris 4.6 Clean work area and reuse or recycle waste and dispose of debris according to workplace and environmental requirements 4.7 Record and report 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
Reading	Interpret relevant information from workplace and manufacturer documentation to safely operate and maintain equipment
Oral communication	- Ask questions and actively listen to clarify work orders and job tasks - Use industry terminology to clearly specify processing and equipment faults
Numeracy	Use basic mathematical formulas to calculate material quantities

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPCOT2262 Cut material to shape using a saw	FWPCOT2232 Cut material to shape using a saw	Rewording of Application and Performance Criteria Changes to Foundation Skills Addition of frequency, volume and saw use in Performance Evidence	Equivalent

Code and title current version	Code and title previous version	Comments	Equivalence status
		Addition of Knowledge Evidence to align to Performance Criteria	

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 FWPCOT2262 Cut material to shape using a saw

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Performance Evidence

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

There must be evidence that the individual has, for at least two different work orders, cut material to shape and completed basic non-specialist maintenance, using one or more of the following saws:

- band saw
- jig saw
- computer numerical control (CNC) saw.

Material to be cut must include two or more of the following:

- 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.

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:

- types, purpose, features, operation and basic non-specialist repair and maintenance of tools and equipment used for cutting material to shape, including:
 - measuring equipment
 - band saws

- jig saws
- CNC saws
- machine guides
- methods for assessing saw blade condition
- shapes, feed rates and finish used for timber products
- environmental requirements for forest products processing settings:
 - 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
- workplace policies and procedures specific to cutting material to shape
- workplace safety requirements relevant to cutting materials using a saw:
 - equipment lock-out
 - use and maintenance of personal protective equipment (PPE), equipment and machinery
 - hazard identification and control measures
 - job safety and environmental analysis (JSEA)
- recording and reporting production outcomes and equipment faults.

Assessment Conditions

Assessment of the skills in this unit of competency must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated in a timber manufacturing or processing facility or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - materials to cut to shape according to Performance Evidence
 - band, jig or CNC saw
 - PPE
- specifications:

- access to work orders and workplace procedures for cutting materials according to the Performance Evidence
- access to workplace safety and environmental policies and procedures applicable to cutting materials using a saw
- access to saw manufacturer specifications and operator instructions
- relationships:
 - person to confirm work orders and report equipment faults and equipment maintenance.

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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