



Australian Government

FWPCOT2245 Operate and maintain a table saw

Release: 1

FWPCOT2245 Operate and maintain a table saw

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 a table saw to produce sawn timber by re-sawing larger timber. This activity includes assessing sawing conditions and adjusting feed rate and sawing equipment to maximise product quality.

The unit applies to individuals who re-saw timber in a timber processing or manufacturing facility.

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 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 operation	1.1 Review work order and cutting pattern 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 operating a table saw 1.4 Identify workplace environmental protection procedures for minimising and disposing of waste material, cleaning tools and equipment, and maximising energy efficiency 1.5 Check input timber to ensure supply and quality meets specification 1.6 Prepare timber supplies for re-sawing to sustain production requirements
2. Operate table saw	2.1 Follow machine lock-out procedures and adjust saws, carriage, speeds and feeds to suit types of timber, dimensions and cutting sequence 2.2 Use table saw according to workplace safety procedures, manufacturer instructions and environmental protection practices 2.3 Select and follow cutting sequence to produce required quantity 2.4 Maintain feed rate appropriate to timber condition and size 2.5 Regularly tally re-sawn timber against work order 2.6 Clear work area according to workplace safety procedures 2.7 Identify damaged sawn timber and dispose of or recycle according to environmental protection practices
3. Assess sawing conditions and maintain optimum sawing processes	3.1 Assess sawing conditions regularly to determine optimal feed rate and finish 3.2 Adjust sawing feed rate to achieve finished dimensions according to work order 3.3 Evaluate finished sawn timber regularly and make adjustments to the sawing process to maximise product quality 3.4 Regularly measure cross-section dimensions of sawn timber against standard sizes and tolerances, and adjust the sawing process 3.5 Identify routine processing and equipment faults, and resolve or report to appropriate personnel 3.6 Complete production and quality records and report according to workplace procedures
4. Complete operator maintenance	4.1 Lock out machine and equipment according to workplace safety procedures

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	4.2 Check saw blades for bluntness or damage 4.3 Remove and replace blades according to manufacturer recommendations 4.4 Dispose of used blades according to workplace procedures and environmental protection practices 4.5 Complete basic non-specialist maintenance of equipment 4.6 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
Numeracy	- Identifies quantities of required material within work orders, and counts raw materials - Calculates the feed rate to optimise the quality and quantity of production output - Accurately measures cross-section dimensions of sawn timber against standard sizes and tolerances - Completes routine production records involving dimensions and quantities tallied against orders
Navigate the world of work	Understands main tasks, responsibilities and boundaries of own role
Interact with others	Uses modes of communication suitable to purpose to confirm and clarify understanding
Get the work done	Recognises and responds to routine problems

Unit Mapping Information

Code and title	Code and title	Comments	Equivalence status
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current version	previous version		
FWPCOT2245 Operate and maintain a table saw	FWPCOT2208 Resaw boards and timber	Reworded application statement for clarity; revised performance criteria; changed unit code and title for consistency and compliance	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 FWPCOT2245 Operate and maintain a table 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, on at least one occasion, the individual has:

- operated a table saw to re-saw timber
- in doing the above job, the individual has:
 - followed work order and relevant workplace health and safety and environmental protection procedures
 - assessed sawing conditions to determine optimal feed rate and finish
 - adjusted sawing feed rate to achieve finished dimensions according to work order
 - evaluated finish and made adjustments to the sawing process to maximise product quality
 - measured cross-section dimensions of sawn timber against standard sizes and tolerances, and adjusted sawing process
 - completed basic non-specialist maintenance tasks
 - completed production and quality records for the job.

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:

- range of industry standard lengths for sawn timber, cross-sections and tolerances and applicable terminology
- typical cutting patterns
- types, purpose, features, operation and basic non-specialist repair and maintenance of table saws
- methods for assessing saw blade condition
- problems that may occur during sawing operations, including:
 - equipment faults and malfunctions

- quality of product and machine settings
- transfer and flow of material
- routine sawing problems
- feed rate and product finish
- infeed and outfeed systems
- damage to sawn board
- damage to saw blade
- timber positioning
- types of risk and hazards and mitigation measures associated with operating and maintaining table saws
- workplace procedures specific to operating and maintaining table saws:
 - workplace health and safety, with particular emphasis on equipment lock-out, the use of personal protective equipment and safe manual handling techniques
 - use and maintenance of equipment
 - communication reporting lines
- recording and reporting of production outcomes and equipment faults
- environmental protection practices for forest products factory settings:
 - cleaning plant, tools and equipment
 - disposing of, recycling and reusing timber.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated in a timber processing or manufacturing facility or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - table saw
 - tools and equipment for operator maintenance of saws
 - consumable components
 - PPE suitable for operating and maintaining a table saw
 - a diverse, comprehensive and commercial product range of timber
- specifications:
 - template documents for recording production outcomes and equipment faults
 - manufacturer instructions for use, repair and maintenance of table saw
 - work order with specific details of material to be re-sawn and production timeline
 - workplace procedures for operating and maintaining table saws.

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

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