



Australian Government

FWPCOT2244 Operate and maintain a thicknesser

Release: 1

FWPCOT2244 Operate and maintain a thicknesser

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 operate and maintain a thicknesser to dress timber.

The unit applies to individuals who operate timber dressing equipment 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 dressing process	1.1 Review work order and seek clarification from appropriate personnel as required 1.2 Review workplace health and safety procedures, including the use of personal protective equipment, equipment lock-out and safe manual handling techniques 1.3 Identify, assess and take actions to mitigate risks and hazards

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	associated with operating a thicknesser 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 dressing operation to sustain production requirements 1.7 Plan sequence of machining operations that suit multiple passes according to work order
2. Operate thicknesser to dress timber	2.1 Identify defective timber before dressing, and dispose of or recycle according to environmental protection practices 2.2 Select cutting sequence 2.3 Follow lock-out procedures and set guides, conveyors, speeds and feeds to suit required dimensions, cutting sequence, feed rates and finish 2.4 Operate thicknesser according to workplace safety procedures, manufacturer instructions and environmental protection practices 2.5 Maintain feed rate appropriate to timber condition and board size 2.6 Regularly tally dressed timber against work orders 2.7 Clear work area regularly according to workplace safety procedures
3. Assess dressing conditions and maintain optimum dressing processes	3.1 Assess dressing conditions regularly to ensure continuity of supply and processing 3.2 Adjust conditions to optimise feed rate and maintain finished dimensions according to work order 3.3 Evaluate finish regularly and adjust equipment to ensure product quality 3.4 Measure and record dressed board dimensions regularly according to workplace procedures 3.5 Identify and respond to routine processing and equipment faults according to workplace procedures 3.6 Record and report production outcomes according to workplace 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. Complete operator maintenance	4.1 Lock out equipment according to manufacturer instructions and workplace safety procedures 4.2 Check cutters for bluntness or damage 4.3 Remove and replace cutters according to manufacturer instructions 4.4 Dispose of used cutters according to the workplace and environmental protection procedures 4.5 Complete basic routine maintenance of equipment according to manufacturer instructions and workplace requirements 4.6 Record and report equipment faults and maintenance according to workplace procedures

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
Oral communication	Responds to oral questions on routine matters related to output quality
Numeracy	- Performs routine arithmetic calculations to establish material quantities required for production - Identifies standard measurement units for speed and dimension used in manufacturer specifications - Recognises standard measures used in describing feed rate
Interact with others	Participates in conversations to inform maintenance staff about equipment faults
Get the work done	- Identifies and responds to routine problems - Plans and organises own work activities and resources

Unit Mapping Information

Code and title	Code and title	Comments	Equivalence status
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current version	previous version		
FWPCOT2244 Operate and maintain a thicknesser	FWPCOT2207 Dress boards and timber	Revised application statement; modified element 2 sequence; updated unit code and title for clarity 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 FWPCOT2244 Operate and maintain a thicknesser

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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:

- set up, adjusted and operated a thicknesser to dress timber according to required dimensions, cutting sequence, feed rates and finish
- in doing the above job, the individual has:
 - reviewed work order to determine job requirements
 - followed work order and relevant workplace health and safety and environmental protection procedures
 - selected equipment and materials according to job requirements
 - planned the sequence of machine operations
 - identified and disposed of defective timber before processing
 - complied with workplace health and safety procedures relevant to dressing timber
 - assessed dressing conditions
 - adjusted conditions to optimise feed rate and maintain finished dimensions
 - completed basic routine equipment maintenance
 - completed production and maintenance reports.

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:

- typical timber defects and potential impact on the quality of dressed timber product:
 - warp
 - wane
 - cupping
 - shakes

- insect defects
- knots
- resin pockets
- typical dressing problems triggering adjustment of process to ensure product quality:
 - blunt or damaged cutters
 - burn marks
 - extra cuts
 - excessive cutter marks
 - dimensional errors
- industry standards and terminology for timber profiles, lengths, cross-sections and tolerances
- types, purpose, features, operational procedures, components and basic maintenance requirements of thicknessers
- problems that can occur when dressing timber:
 - equipment faults and malfunctions
 - quality of product and machine settings
 - efficient rejection of defective timber before dressing
 - transfer and flow of material
 - dressing problems
 - feed rate
 - product finish
- methods for assessing cutters condition
- types of risk and hazards and mitigation measures associated with dressing timber
- workplace procedures specific to dressing timber:
 - workplace health and safety requirements, with particular emphasis on equipment lock-out, use of personal protective equipment (PPE) and safe manual handling
 - selection, use and maintenance of equipment
 - communication reporting lines
 - recording and reporting production outcomes and equipment faults
- environmental protection practices for timber processing or manufacturing facilities:
 - reducing water and energy use
 - 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 reflects workplace conditions
- resources, equipment and materials:

- thicknesser
- maintenance tools and equipment
- consumable components of thicknesser
- PPE suitable for dressing timber
- a diverse, comprehensive and commercial range of timber
- specifications:
 - template documents for recording production outcomes and equipment faults
 - manufacturer specifications and instructions for thicknesser
 - work order detailing material to be dressed, special client requirements and production timelines
 - written workplace procedures for operating and maintaining thicknesser.

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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