



Australian Government

FWPTMM3210 Convert timber

Release: 1

FWPTMM3210 Convert timber

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 prepare and re-saw material to specified width and thickness with a power driven saw to optimise timber conversion and usability. This includes identifying requirements in a work order, following workplace health and safety procedures, planning timber conversion, producing sawn boards and performing routine machine maintenance.

The unit applies to individuals who use sawing machines to convert timber in a timber processing or manufacturing facility.

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

Pre-requisite Unit

Nil

Unit Sector

Timber Manufactured Products

Timber Merchandising

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 conversion	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 converting timber 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 type and quantity of material to be converted from storage location 1.6 Select appropriate equipment, and check for operational effectiveness in line with manufacturer recommendations 1.7 Plan timber conversion and saw set-up according to work order
2. Produce boards	2.1 Set and regularly check saw, carriage and feed, and adjust to suit conversion plan, ordered sizes and tolerances 2.2 Use equipment and machinery according to workplace procedures, safety requirements, manufacturer instructions and environmental protection practices 2.3 Monitor timber supply to ensure quality of finished product and constant supply to saw 2.4 Maintain feed rate and operate saw bench to produce boards without damage to boards or saw blade 2.5 Dispose of incorrect cuts, off-cuts and material with defects according to environmental protection practices 2.6 Stack material safely in designated location according to work order 2.7 Report processing and equipment faults to appropriate personnel
3. Complete operator maintenance	3.1 Follow workplace safety procedures to lock out equipment 3.2 Check saw blades for bluntness or damage 3.3 Remove and replace saw blades according to manufacturer recommendations 3.4 Dispose of used blades according to workplace procedures and environmental protection practices 3.5 Keep saw area clear of dust, off-cuts and debris according to safety and site requirements

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	Interprets key requirements in workplace health and safety and environmental procedures for clearing sawn waste from work area
Writing	Completes basic written production reports and tally sheets
Oral communication	Responds to oral questions on routine matters related to output quality
Numeracy	- Uses basic arithmetic skills to identify quantities of required material within work plans, and counts raw materials - Uses standard units of measure to identify order sizes and set up the saw to achieve correct depth, width and thickness of cut - Interprets graphical information in charts to identify the feed rate to optimise quality and quantity of production output
Navigate the world of work	Follows workplace policies and procedures relevant to work role
Interact with others	Participates in conversations to inform maintenance staff about equipment faults
Get the work done	Identifies and responds to routine problems

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPTMM3210 Convert timber	FWPTMM3201 Convert timber	Reworded application; added performance criteria relating to workplace health and safety; revised performance evidence for mapping; updated foundation skills	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 FWPTMM3210 Convert timber

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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, on at least one occasion, safely set up, operated and maintained sawing machines to cut timber to width and thickness, and has:

- followed work order and relevant workplace health and safety and environmental protection procedures
- followed workplace policies and practices relevant to converting timber of at least one of the following materials:
 - native timber species
 - imported timber species
 - dressed timber
 - in-the-rough timber
 - green timber
 - stress and non-stress graded timber
 - preservative treated timber
 - coated and/or treated timber products
 - beams or laminated beams
- cut material to width and thickness according to work order and within prescribed workplace tolerances
- conducted operator maintenance on a power driven saw
- stacked batches of cut material according to workplace requirements.

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:

- timber conversion processes:
 - re-sawing in-the-rough boards to optimise single boards through cutting away waste edges

- cutting boards into two or more boards, thereby maximising the amount of product in line with the work order
- saw set-up, including setting depth, width and thickness of cut measured from the fence in line with product order and allowing for kerf (width of saw cut)
- storage layout and categories for raw materials and stacking finished materials, including:
 - preparing for transport
 - categorising in common size, length, width and thickness
 - marking lots in line with work order and site requirements
 - locating so as not to block access or passage
- characteristics of timber and timber defects, including:
 - warp
 - wane
 - cupping
 - shakes
 - insect defects
 - knots
 - resin pockets
- cutting patterns and sequences
- tolerances
- saw feed rates
- industry standard cross-sections and lengths
- types of conversion tools and equipment; their purpose, features, operation and basic non-specialist repair and maintenance:
 - measuring equipment
 - automatic feed controlled ripping saws
 - saws with adjustable thickness (sloping table)
 - saws with one blade
 - rip saws
 - table saws
 - bench saws
- methods for assessing saw blade condition
- environmental protection practices for forest products factory settings:
 - reducing water and energy use
 - cleaning plant, tools and equipment
 - disposing of, recycling and reusing timber and other waste
- workplace procedures specific to conversion activities:
 - workplace health and safety, with particular emphasis on personal protective equipment (PPE) and equipment lock-out
 - use and maintenance of equipment
 - communication reporting lines
 - recording and reporting cutting process and equipment faults.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated in a forest and forest products factory setting or an environment that accurately reflects workplace conditions
- resources, equipment and materials:
 - one or more of the following items of conversion equipment: automatic feed controlled ripping saws, saws with adjustable thickness (sloping table), saws with one blade, rip saws, table saws, bench saws
 - measuring equipment
 - maintenance tools and equipment for saws
 - consumable components, saw blades
 - a diverse, comprehensive and commercial product range of timber
 - PPE suitable for conversion activities
 - template reports for recording of processing and equipment faults
- specifications:
 - manufacturer instructions for use and maintenance of equipment
 - access to work order for conversion activities, with specific instructions for the cutting and storage of timber and timber products
 - access to written workplace procedures for conversion activities.

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

Links

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