



Australian Government

FWPSAW3243 Produce sawn green boards

Release: 1

FWPSAW3243 Produce sawn green boards

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 re-saw green timber boards to width and on the cant with sawing machinery to optimise its conversion and usability.

The unit applies to individuals who saw green boards in a timber processing plant.

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

Sawmilling and Processing (SAW)

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 re-sawing green timber boards	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 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 sawing operations 1.4 Identify workplace environmental protection procedures for minimising and disposing of waste material and cleaning tools and equipment, and maximising energy efficiency 1.5 Plan timber conversion and saw set-up in line with work order 1.6 Acquire the type, quantity and quality of material to be cut from the storage location
2. Produce green timber boards	2.1 Set up saw, carriage and feeding system according to workplace safety procedures, manufacturer instructions and environmental protection practices 2.2 Check the operational capability of saw and equipment and adjust regularly to suit conversion plan and product sizes and tolerances according to work order 2.3 Monitor timber quantity to ensure a constant supply to the saw 2.4 Operate saw and equipment while maintaining feed rate to optimise production without damaging timber or saw blade 2.5 Reuse, recycle or dispose of incorrect cuts, off-cuts and sub-standard timber according to workplace and environmental protection practices 2.6 Stack timber safely according to work order 2.7 Identify routine processing problems, and resolve or report to appropriate personnel 2.8 Record and report production output
3. Complete operator maintenance	3.1 Lock out equipment according to workplace safety procedures 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 and environmental protection practices 3.5 Complete basic non-specialist maintenance for equipment 3.6 Keep machine clear of dust and debris according to workplace safety procedures 3.7 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	Extracts essential information from operational manuals to determine safe operating procedures for equipment
Writing	Prepares routine written reports using the required format, language and structure
Oral communication	Employs active listening and questioning to clarify the content of work orders
Numeracy	- Uses standard units of measure when using measuring equipment, determining order sizes and setting up saws to achieve correct depth, width and thickness of the cut - Performs basic arithmetic calculations to count numbers of flitches or cants to be sawn, and calculates feed rate
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 current version	Code and title previous version	Comments	Equivalence status
FWPSAW3243 Produce sawn green boards	FWPSAW3202 Produce sawn green boards	Updated workplace health and safety requirements in performance criteria and evidence; 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 FWPSAW3243 Produce sawn green boards

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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:

- followed relevant workplace health and safety and environmental protection procedures
- identified, assessed and taken actions to mitigate risks and hazards associated with re-sawing timber
- set up and operated sawing equipment to produce sawn green timber boards
- produced sawn green boards for one or more of the following types of timber according to an individual work order prescribing different lengths, tolerances and a number of boards for each job:
 - hardwood
 - softwood
 - native timber species
 - imported timber species
- used one or more of the following types of saws:
 - power operated, automatic feed controlled ripping saws
 - saws with adjustable cant (sloping table)
 - saws with one blade
 - rip saws
 - table saws
 - bench saws
- stacked batches of cut timber in storage location according to common size, length, width and cant
- completed the following basic non-specialist operator maintenance activities:
 - cleaned the machine of wood chips and sawdust
 - replaced blunt saw blades, if required
 - inspected machine parts for wear or damage, including guards

- greased and lubricated moving parts
- checked the operation of emergency stop buttons and lock-out systems
- recorded and reported production output, equipment faults and maintenance requirements to appropriate personnel.

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 the impact on production of quality sawn timber:
 - warp
 - wane
 - cupping
 - shakes
 - insect defects
 - knots
 - resin pockets
- typical workflow processes for sawing green timber boards
- typical flow of flitch and cant supply into the sawing area
- range of cutting patterns used on green flitches and cants to achieve maximum output of green timber boards
- range of industry standard lengths, cross-sections and tolerances, and applicable terminology for green timber
- range of feed rates and impact on production output and finished quality of green timber boards
- storage layout and categories for stacking finished green timber boards
- purpose, features and operation of measuring equipment used in the production of sawn green timber boards
- purpose, features and operation of saws:
 - power operated, automatic feed controlled ripping saws
 - saws with adjustable cant (sloping table)
 - saws with one blade
 - rip saws
 - table saws
 - bench saws
- purpose, features and operation of maintenance tools and equipment for saws
- methods for assessing saw blade condition
- manual handling techniques
- environmental protection practices for sawing operations:
 - cleaning plant, tools and equipment
 - criteria and processes for disposing of, recycling and reusing timber
 - minimising waste material and maximising energy efficiency

- processes for implementing routine operator maintenance activities associated with sawing operations
- workplace procedures specific to producing sawn green timber boards:
 - workplace health and safety, with particular emphasis on equipment lock-out, use of personal protective equipment (PPE) and manual handling
 - communication reporting lines
 - recording and reporting production output, processing problems and equipment faults.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated in a timber processing plant or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - measuring equipment
 - saws, including one or more of the following: power operated, automatic feed controlled ripping saw, saw with adjustable cant (sloping table), saw with one blade, rip saw, table saw, bench saw
 - maintenance tools and equipment for saws
 - manual handling equipment
 - consumable saw blades
 - PPE suitable for producing sawn green boards
 - a diverse, comprehensive and commercial range of green flitches and cants
- specifications:
 - manufacturer instructions for use, repair and maintenance of equipment
 - work order with specific instructions for cutting green timber boards
 - template documents for recording equipment faults and maintenance requirements
 - workplace procedures for producing sawn green boards.

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>