



Australian Government

FWPSAW3231 Perform secondary log breakdown

Release: 1

FWPSAW3231 Perform secondary log breakdown

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 perform secondary log breakdown by sawing flitches and cants to produce edged (cut lengthwise) and trimmed (cut widthwise) boards.

The unit applies to individuals who saw flitches and cants to produce edged 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 secondary log breakdown	1.1 Review work order and, where required, check with 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 performing secondary log breakdown 1.4 Identify workplace environmental protection procedures for minimising and disposing of waste material, cleaning tools and equipment, and maximising energy efficiency 1.5 Match cutting pattern and product mix to cants and flitches according to workplace procedures 1.6 Identify processing constraints and potential solutions according to workplace procedures
2. Operate sawing equipment	2.1 Complete pre-start checks according to manufacturer and workplace procedures 2.2 Check input cants and flitches to ensure compliance with specifications 2.3 Check that other upstream and downstream processing stages are ready for production 2.4 Select cutting programme based on incoming cants and flitches and work order requirements 2.5 Cut trial cant or flitch to check for quality and compliance with cutting schedule requirements 2.6 Operate sawing equipment to comply with the cutting strategy, maximise grade and size, and optimise recovery value 2.7 Manage product flow to ensure efficient workflow in the sawmill and optimise secondary breakdown operations
3. Monitor the performance of sawing equipment	3.1 Enter control information into any control device fitted to the sawing equipment according to workplace procedures 3.2 Monitor and interpret output data according to workplace procedures 3.3 Monitor output from the sawing equipment and implement corrective action according to workplace procedures 3.4 Complete production, maintenance and quality records according to workplace procedures 3.5 Identify routine processing problems, and resolve or report to appropriate personnel
4. Implement routine maintenance procedures	4.1 Carry out preventative maintenance and cleaning schedule for

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<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
for sawing equipment	sawing equipment according to workplace procedures 4.2 Coordinate saw changes with other staff and make adjustments to breakdown equipment 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
Reading	- Extracts information from manufacturer procedures to verify safe lock-out procedures when performing routine equipment maintenance - Determines work specifications by identifying information in work orders
Writing	- Completes basic written reports for maintenance staff on observed equipment faults - Completes hazard identification forms
Oral communication	- Asks open and closed questions to clarify work instructions - Responds to questions on routine matters related to output quality from quality control personnel
Numeracy	- Counts number of cants and flitches to be sawn - Performs basic calculations to determine feed rate to optimise quality and quantity of production output
Navigate the world of work	Understands main tasks, responsibilities and boundaries of own role
Interact with others	Participates in conversations with team members relevant to the implementation of maintenance procedures
Get the work done	- Identifies and responds to routine problems - Plans and organises own work activities and resources

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPSAW3231 Perform secondary log breakdown	FWPSAW3204 Saw flitches and cants	Updated unit title, application statement, elements and performance criteria to focus unit on secondary log breakdown process; updated foundation skills; clarified assessment requirements; clarified assessment conditions	No 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 FWPSAW3231 Perform secondary log breakdown

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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 work order and relevant workplace health and safety and environmental protection procedures
- operated sawing equipment to break down flitches and cants to produce edged (cut lengthwise) and trimmed (cut widthwise) boards
- monitored the performance of sawing equipment
- implemented routine maintenance procedures for sawing equipment.

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 of risk, hazards and mitigation measures associated with secondary log breakdown operations
- workplace procedures specific to breaking down logs:
 - workplace health and safety, with particular emphasis on equipment lock-out and use of personal protective equipment (PPE)
 - communication reporting lines
 - recording and reporting of processing problems and equipment faults
- environmental protection practices for forest products factory settings:
 - reducing water and energy use
 - cleaning plant, tools and equipment
 - disposing of, recycling and reusing timber
- distinction between primary and secondary log breakdown
- basic operations that transform logs into sawn boards:
 - sawing

- edging
- trimming
- impact of secondary log breakdown on recovery
- purpose, operating components and operation of sawing equipment
- operating parameters and capability of sawing equipment
- safety features of sawing equipment:
 - isolation procedures
 - stop button
 - lock-out switch or system
 - hold cards
 - guards
- processing constraints and potential solutions:
 - markets
 - flitch and cant supply
 - timber defects
 - product mix
 - downstream processing options
- typical workflow processes for secondary log breakdown
- hazards associated with the operation of sawing equipment:
 - moving equipment
 - dust
 - mobile plant
 - noise
- typical flow of log supply in and out of the sawing area
- range of cutting patterns used on logs to achieve maximum output of edged (cut lengthwise) and trimmed (cut widthwise) boards
- range of feed rates and how they affect production output and finished quality of boards
- characteristics of timber
- breakdown processes, feed rates and finish
- methods for assessing saw blade condition
- types of storage and labelling systems
- typical log defects and the impact on production of quality flitches and cants:
 - warp
 - wane
 - curvature
 - cupping
 - shakes
 - insect defects
 - knots
 - resin pockets

- types of and processes for implementing routine operator maintenance activities associated with sawing operations.

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:
 - automatic, manual or semi-automated sawing equipment for use in secondary log breakdown
 - PPE for the secondary log breakdown
 - a selection of cants and flitches
- specifications:
 - manufacturer instructions for equipment operation and maintenance
 - work order with specific instructions for secondary log breakdown and despatching to downstream processing
 - template documents for recording equipment faults and maintenance requirements
 - workplace policies and procedures for secondary log breakdown.

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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<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47>