



Australian Government

FWPSAW3254 Control and monitor automated green mill saw line

Release: 1

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Modification History

Release	Comments
Release 1	This version released with FWP Forest and Wood Products Training Package Version 8.0.

Application

This unit of competency describes the skills and knowledge required to control and monitor a fully automated saw line from control room to cut logs into green sawn timber.

The unit applies to individuals who operate automated green mill saw lines in a sawmill or timber processing work environment.

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 to control and monitor green mill automated saw line	1.1 Determine job requirements from work order or instructions and, where required, check with appropriate personnel 1.2 Review workplace health and safety and environmental protection procedures for work activity

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 and assess hazards and take actions to mitigate risks related to saw line operations 1.4 Confirm emergency procedures and actions to be taken in the event of an emergency situation
2. Configure green mill automated saw line optimising program	2.1 Set optimising program to job specifications 2.2 Conduct trial runs to check system operation, accuracy and quality of finished work 2.3 Complete final adjustments to optimising program
3. Control and monitor green mill automated saw line	3.1 Start up and log onto control and data acquisition system to operate saw line 3.2 Feed logs into saw line 3.3 Monitor sawing operation through control and data acquisition system and make system adjustments to meet production output, product quality and maximum recovery 3.4 Identify and correct minor deviations to normal operating parameters of saw line 3.5 Report non-routine processing and equipment problems to relevant personnel
4. Maintain process control and data acquisition system for green mill automated saw line	4.1 Conduct routine planned inspections of control and data acquisition system according to manufacturer requirements 4.2 Report faults and maintenance requirements to relevant 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
Writing	Prepare routine written reports using required format, language and structure

Skill	Description
Oral communication	Employ active listening and questioning on routine matters related to output quality and equipment history records
Numeracy	- Perform precise mathematical calculations to determine correct alignment of key parts of sawing system according to specified settings - Use basic mathematical symbols and conventions in completing workplace reports related to alignment activities

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPSAW3254 Control and monitor automated green mill saw line	FWPSAW3249 Saw logs using CNC optimising systems	New unit title Revised Application, Elements and Performance Criteria Revised Foundation Skills Updated Performance Evidence, Knowledge Evidence and Assessment Conditions	Not equivalent

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 FWPSAW3254 Control and monitor automated green mill saw line

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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 run, monitored and controlled a fully automated green mill saw line from control room for one production cycle.

In performing this task, the individual has:

- followed workplace health and safety and operating procedures
- checked system operation for compliance with job-specific operational and optimisation requirements
- monitored control and data acquisition system and optimising program and adjusted the system to meet production parameters and requirements
- conducted routine scheduled checks of the control and data collection systems and communicated any deficiencies or maintenance requirements to relevant 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:

- workplace procedures specific to control and monitoring of fully automated green mill saw line, including:
 - health and safety, including use of personal protective equipment (PPE) and equipment lock-out
 - communication procedures
 - recording and reporting of processing problems and equipment faults
 - emergency procedures
- workplace environmental protection requirements and practices specific to timber processing plants, including:
 - reducing water and energy use
 - cleaning plant, tools and equipment

- disposing of, recycling and reusing timber
- features and components of fully automated green mill saw line
- features and operation of control and data acquisition system for automated green mill saw line
- basic components and functions of mechatronic systems for automated green mill saw line, including:
 - sensors
 - actuators
 - controllers
- workflow processes for automated green mill saw line
- typical flow of log supply in and out of sawing area in green mill
- range of cutting patterns used on logs to achieve maximum output of flitches and cants
- range of feed rates and how they affect production output and finished quality of flitches and cants
- purpose, features and configuration of optimisation program for automated green mill saw line
- typical log defects and how they affect ability to produce quality flitches and cants, including:
 - warp
 - wane
 - curvature
 - cupping
 - shakes
 - insect defects
 - knots
 - resin pockets.

Assessment Conditions

Assessment of the skills in this unit of competency 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:
 - fully automated green mill saw line
 - PPE suitable for green mill saw line operations
 - logs for processing
- specifications:
 - workplace procedures for control and monitoring automated green mill saw line
 - workplace emergency procedures relevant to green mill saw line operations
 - template documents for recording equipment faults and maintenance requirements

- workplace health and safety and environmental protection policies and/or procedures applicable to saw line operations.

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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