



Australian Government

FWPSAW3249 Saw logs using CNC optimising systems

Release: 1

FWPSAW3249 Saw logs using CNC optimising systems

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 set up and operate computer numerical control (CNC) optimising systems and saws to maximise timber output from every log.

The unit applies to individuals who saw logs using CNC optimising systems in forest and forest product factory settings.

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 machining	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 1.3 Identify, assess and take actions to mitigate risks and hazards associated with manufacturing profile cutters 1.4 Identify workplace environmental protection procedures for

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	minimising and disposing of waste material, cleaning tools and equipment, and maximising energy efficiency 1.5 Plan log sawing process in line with work order
2. Set up optimising system	2.1 Set CNC optimising program to job specifications 2.2 Check safety equipment and saw and cutting mechanisms for safe and effective operation 2.3 Adjust saw settings in line with work order 2.4 Conduct trial runs to check system operation, accuracy and quality of finished work 2.5 Complete final adjustments to CNC optimising program and equipment in line with organisational procedures
3. Operate optimising log saw	3.1 Use equipment in line with organisational safety procedures, manufacturer instructions and environmental protection practices 3.2 Complete pre-start-up checks to ensure operational effectiveness 3.3 Feed logs into machine, operate saw and monitor use to minimise waste and ensure quality product and output 3.4 Repair or dispose of sub-standard product in line with environmental protection practices 3.5 Direct processed logs to designated area in line with work order 3.6 Identify routine processing problems, and resolve or report to appropriate personnel
4. Complete operator maintenance	4.1 Follow organisational safety procedures to lock out equipment 4.2 Check saw blades for bluntness or damage 4.3 Remove and replace saw blades in line with manufacturer recommendations 4.4 Dispose of used blades in line with environmental protection practices 4.5 Complete basic non-specialist maintenance for equipment 4.6 Keep machine clear of dust and debris in line with organisational safety procedures 4.7 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 complex technical documents and manuals to determine safe operating and maintenance procedures
Writing	Prepares routine written reports using the required format, language and structure
Oral communication	Employs active listening and questioning to clarify content of equipment history records
Numeracy	- Performs precise mathematical calculations to determine the correct alignment of key parts of the sawing system according to specified settings - Uses basic mathematical symbols and conventions in completing workplace reports related to alignment activities
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
FWPSAW3249 Saw logs using CNC optimising systems	FWPSAW3226 Saw logs using CNC optimising systems	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>