



Australian Government

FWPSAW3241 Set up and operate production saws used in sawmill operations

Release: 1

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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, align, operate and maintain circular and band sawing machines used in sawmilling operations.

The unit applies to individuals who set up, align, and maintain sawing machines used in sawmilling operations.

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

Sawmill 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 work	1.1 Review work order to determine job requirements and, where required, seek clarification from appropriate personnel 1.2 Review environmental protection procedures and workplace health and safety requirements, including the use of personal protective

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	equipment, equipment lock-out and safe manual handling techniques 1.3 Identify, assess and take actions to mitigate risks and hazards associated with working with sawing machines 1.4 Identify and implement workplace procedures for minimising waste material and maximising energy efficiency 1.5 Consult with appropriate personnel to ensure that work is coordinated effectively with others in the workplace 1.6 Obtain tools, equipment and materials needed for the work, and check for correct operation and safety
2. Set up sawing machine	2.1 Check existence and serviceability of safety equipment, including emergency stops, gauges, guards and controls 2.2 Establish sawing machine settings and make adjustments according to job requirements and manufacturer instructions 2.3 Conduct trial runs to check sawing machine operation, accuracy, alignment and quality of finished work 2.4 Make necessary adjustments to sawing machine settings based on outcomes of trial runs
3. Align sawing machine	3.1 Identify conditions related to saw blades and accuracy of cuts that indicate that sawing machine is out of alignment 3.2 Check alignment of sawing machine according to manufacturer and workplace procedures 3.3 Establish current alignment of sawing machine, identifying corrective actions required 3.4 Align sawing machine according to workplace and manufacturer procedures 3.5 Record and report corrective actions that are taken to realign sawing machine

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
4. Operate sawing machine	4.1 Complete sawing machine start-up procedure according to manufacturer instructions 4.2 Position material to be sawed according to manufacturer instructions, tooling requirements, safe handling procedures and workplace procedures 4.3 Operate sawing machine according to designed capacity and purpose and manufacturer recommendations 4.4 Monitor sawing machine operation to ensure product quality and output 4.5 Minimise waste according to the workplace and environmental protection procedures 4.6 Reuse, recycle or dispose of output timber that does not meet quality requirements according to the workplace and environmental protection procedures 4.7 Identify problems with the required work and/or the operation of the sawing machine, and rectify or report to appropriate persons 4.8 Shut sawing machine down according to workplace procedures 4.9 Record production outcomes and equipment faults or malfunctions, and take corrective actions according to workplace procedures
5. Maintain sawing machine	5.1 Clean work area according to workplace procedures 5.2 Clean, maintain and store hand and/or power tools and equipment according to workplace procedures 5.3 Clean sawing machine and leave in a safe mode 5.4 Tag and report faulty and/or defective equipment according to workplace procedures 5.5 Collect and store unused hardware for reuse, recycling or disposal 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 essential information from operational manuals to determine software parameters of scanning equipment
Writing	Prepares routine written reports using the required format, language and structure
Oral communication	Employs active listening and questioning to clarify content of work orders
Numeracy	- Uses standard measures to record calibration outcomes - Interprets graphical and statistical data used in calibration process
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
FWPSAW3241 Set up and operate production saws used in sawmill operations	Not applicable	New unit	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 FWPSAW3241 Set up and operate production saws used in sawmill operations

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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:

- set up, aligned, and maintained one or more of the following types of sawing machines according to a specific work order:
 - circular saw
 - band saw.
- In doing the above job, the individual has:
 - followed work order and relevant workplace health and safety and environmental protection procedures
 - identified, assessed and taken actions to mitigate risks and hazards associated with working with sawing machines
 - used personal protective equipment (PPE), lock-out procedures and safe manual handling techniques throughout the work
 - performed routine maintenance of sawing machine
 - recorded production outcomes and equipment faults or malfunctions and took corrective actions according to workplace procedures.

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, characteristics, uses and limitations of the following sawing machines used in sawmill operations:
 - circular saw
 - band saw
- sawing processes and techniques
- characteristics of materials and uses of products produced

- methods for:
 - setting up sawing machines
 - aligning sawing machines
 - maintaining sawing machines
 - operating sawing machines
- conditions related to saw blades and accuracy of cuts that indicate that sawing machine is out of alignment
- identification of alignment factors that will impact on the performance of the machine centre
- procedures for reporting machinery faults and material defects
- types of risk and hazards and mitigation measures associated with the work task
- legal, ethical and work health and safety requirements specific to the work task
- awareness of environmental sustainability issues as they relate to the work task.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated in a forest product factory setting or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - sawing machines used in sawmilling operations, including circular saws and band saws
 - tools, equipment and testing devices used in setting up, aligning, operating and maintaining sawing machines
 - PPE for setting up and operating sawing machines in sawmill operations
- specifications:
 - template documents for recording production outcomes
 - manufacturer instructions for setting up, aligning, operating and maintaining sawing machines
 - work order with specific instructions for setting up, aligning, operating and maintaining sawing machines
 - workplace procedures for setting up, aligning, operating and maintaining sawing machines.

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

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