



Australian Government

FWPSAW3232 Sharpen band saw blades

Release: 1

FWPSAW3232 Sharpen band saw blades

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 assess the condition of narrow and wide band saw blades, set up the sharpening machine and sharpen saw blades with a grinder.

The unit applies to individuals who sharpen band saws in a saw technician workshop or sawmill.

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 sharpening	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 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 sharpening operations 1.4 Identify and implement workplace procedures for minimising waste material and maximising energy efficiency
2. Assess band saw blade condition	2.1 Assess condition of blade teeth and cutting performance of blade to determine the need to replace or sharpen 2.2 Measure the kerf of the teeth before sharpening to ensure compliance with workplace standards 2.3 Assess condition of prior repairs, blade teeth, set and tension
3. Set up sharpening machine	3.1 Select sharpening machine and perform pre-operational check to determine operational effectiveness of the machine 3.2 Change or dress grinding wheel as required 3.3 Adjust sharpening machine settings to suit required blade geometry, taking into account material to be sawn, speed and direction of sawing process and cutting angle for sawing 3.4 Prepare grinding coolant system according to manufacturer instructions
4. Sharpen band saw blade	4.1 Set saw blade in the sharpening machine to manufacturer recommendations 4.2 Align saw blade tooth with the machine feed mechanism 4.3 Conduct tests to ensure teeth and machine feed mechanism are aligned 4.4 Establish depth of machine cut and in-feed from blade condition 4.5 Monitor machine sharpening process to ensure correct grinding conditions and geometry 4.6 Finalise process and check the blade for sharpness, correct cutting angle and profile 4.7 Identify damaged and exhausted saw blades and dispose of these according to environmental protection practices 4.8 Package band saw for protection during return to service 4.9 Identify routine processing and equipment faults, and resolve or report 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 sharpening machine
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	- Performs basic mathematical calculations to determine correct machine settings in relation to speed, pitch and angle - Performs basic mathematical calculations to measure kerf and blade gauge to calculate side clearance
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
FWPSAW3232 Sharpen band saw blades	FWPSAW3207 Sharpen band saws	Revised and split element 2; clarified performance evidence; minor edits to knowledge evidence; updated unit code and title for clarity and compliance	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>