



Australian Government

FWPSAW3207 Sharpen band saws

Release: 1

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Modification History

Release	Comment
1	Replaces equivalent unit FPISAW3207B Sharpen band saws, which was first released with FPI11 Forest and Forest Products Training Package Version 2.2. This is the first release of this unit in the new standards format.

Application

This unit of competency describes the outcomes required to assess the condition of band saw blades, set up the sharpening machine and sharpen saw blades with a grinder. Work is completed in a forest products factory setting.

The unit applies to Sawdoctor, Saw Repairer, Sawyer.

No licensing, legislative, regulatory, or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Unit Sector

Sawmilling and Processing

Elements and Performance Criteria

<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the range of conditions.</i>
1. Prepare for sharpening	1.1 Review work order and where required check with appropriate personnel. 1.2 Select appropriate repair, maintenance and personal protective equipment and check for operational effectiveness in line with manufacturer's recommendations. 1.3 Plan sharpening process in line with work order.
2. Assess condition and set up sharpening	2.1 Follow organisational safety procedures throughout all

equipment	maintenance and repair processes. 2.2 Remove band saw blades from designated machinery. 2.3 Assess cutting performance of blade and determine need to replace or sharpen. 2.4 Assess condition of prior repairs and blade teeth, set and tension. 2.5 Select sharpening machine and change or dress grinding wheel. 2.6 Adjust machine settings to suit required blade geometry and set blade to manufacturer's recommendations. 2.7 Align blade tooth with machine feed mechanism.
3. Sharpen band saw blade	3.1 Conduct tests to ensure teeth and machine feed mechanism are aligned. 3.2 Establish depth of machine cut and in-feed from blade condition. 3.3 Monitor machine sharpening process to ensure correct grinding conditions and geometry. 3.4 Finalise process and check blade for sharpness, correct cutting angle and profile. 3.5 Identify damaged and exhausted saw blades and dispose of these in line with environmental protection practices. 3.6 Package band saw for protection during return to service. 3.7 Identify routine processing and equipment faults and resolve or report to appropriate personnel.

Foundation Skills

This section describes those core and employment skills that are essential to performance and are not explicit in the performance criteria.	
Numeracy skills to:	- calculate requirements and: - operate machine at correct speed, pitch and angle - sharpen blades to correct set, tension and profile.
Oral communication skills to:	ask open and closed probe questions and actively listen to clarify contents of work orders.
Reading skills to:	- interpret: - workplace health and safety procedures - work orders - manufacturers' maintenance recommendations.

Writing skills to:	• complete accurate basic records of processing and equipment faults..
Planning and organising skills to:	• efficiently and logically sequence the stages of preparation and repair work using work order to guide activities.
Problem-solving skills to:	• assess blade condition and rectify faults through correct sharpening process • identify and dispose of exhausted and damaged blades • recognise faulty equipment and resolve by reporting or rectifying.
Technology skills to:	• select and use appropriate repair, maintenance and personal protective equipment for sharpening band saw blades • efficiently and safely sharpen band saw blades.

Range of Conditions

Not Applicable

Unit Mapping Information

FPISAW3207B Sharpen band saws

Links

Companion Volume implementation guides are found in VETNet -

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