



Australian Government

FWPSAW3208 Sharpen circular saws

Release: 1

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Modification History

Release	Comment
1	Replaces equivalent unit FPISAW3208B Sharpen circular 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 circular saw blade condition, set up for sharpening and sharpen saw blades with a manually controlled 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 and site procedures.
2. Assess condition	2.1 Follow organisational safety procedures throughout all

and set up sharpening equipment	<p>maintenance and repair processes.</p> <p>2.2 Assess cutting performance of blade and determine need to replace or sharpen.</p> <p>2.3 Assess prior repairs and condition of teeth, set, and straightness of blade.</p> <p>2.4 Select sharpening machine with suitable wheel diameter and thickness and change, profile or grind wheel in line with manufacturer's instructions.</p> <p>2.5 Adjust machine settings to suit required tooth profile geometry, blade set or kerf, blade thickness and diameter to manufacturer's recommendations.</p> <p>2.6 Set up saw in grinder with appropriate attachments for tooth pitch.</p>
3. Sharpen circular saw blade	<p>3.1 Grind teeth face and gullet to achieve required sharpness and surface finish.</p> <p>3.2 Maintain tooth profile to industry standards.</p> <p>3.3 Keep variations in tooth height within industry or manufacturer tolerances for concentricity.</p> <p>3.4 Control wheel and saw hand feeds to minimise wear, avoid burn marks and maintain smooth surface finish.</p> <p>3.5 Identify damaged and exhausted circular saw blades and dispose of these in line with organisational procedures and environmental protection practices.</p> <p>3.6 Identify routine processing and equipment faults and resolve or report to appropriate personnel.</p>

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:	<ul style="list-style-type: none"> • estimate speed at which the abrasive wheel can remove material without affecting steel characteristics when sharpening • measure cutting performance • complete precise calculations to machine teeth to correct • angle • pitch • height • depth.

Oral communication skills to:	<ul style="list-style-type: none"> ask open and closed probe questions and actively listen to clarify contents of work orders.
Reading skills to:	<ul style="list-style-type: none"> interpret: <ul style="list-style-type: none"> workplace health and safety procedures work orders manufacturer's instructions and maintenance recommendations.
Writing skills to:	<ul style="list-style-type: none"> complete basic accurate records of processing and equipment faults.
Planning and organising skills to:	<ul style="list-style-type: none"> efficiently and logically sequence stages of preparation and repair work using work order to guide activities.
Problem-solving skills to:	<ul style="list-style-type: none"> 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:	<ul style="list-style-type: none"> select and use appropriate repair, maintenance and personal protective equipment for sharpening circular saw blades efficiently and safely sharpen circular saw blades.

Range of Conditions

Not Applicable

Unit Mapping Information

FPISAW3208B Sharpen circular saws

Links

Companion Volume implementation guides are found in VETNet -

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