



Australian Government

FWPSAW3225 Maintain frame saw blades

Release: 1

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Modification History

Release	Comment
1	Replaces equivalent unit FPISAW3225B Maintain frame saw blades, 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 hammer, tension, back-gauge, weld and replace teeth on frame saw blades. It includes inspecting saws, repairing defects including damaged or missing teeth and cracks, and hammering ridges and lumps. Work is completed in a forest and wood products factory setting.

The unit applies to Sawdoctor, Saw Repairer.

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 maintenance	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 repair process in line with work order.
2. Assess saw	2.1 Follow organisational safety procedures throughout all

condition	<p>maintenance and repair processes.</p> <p>2.2 Remove frame saw blades from machinery.</p> <p>2.3 Handle saws to avoid damaging teeth.</p> <p>2.4 Clean foreign material on saw surfaces for inspection.</p> <p>2.5 Inspect saw to assess condition of teeth and saw blade.</p> <p>2.6 Check and mark teeth and tips requiring repair or replacement.</p> <p>2.7 Declare saw unserviceable where hazardous defects are found.</p> <p>2.8 Segregate and dispose of unserviceable saws in line with organisational procedures and environmental protection practices.</p>
3. Hammer, tension and back-gauge saw blade	<p>3.1 Assess ridges or lumps across and along saw on both sides of blade.</p> <p>3.2 Use gauges and straight edges in both directions to test blade accuracy.</p> <p>3.3 Remove ridges or lumps progressively through hammering and use stretcher or levelling rolls to flatten.</p> <p>3.4 Control hammering or rolling patterns to localise stresses to avoid spring-back and re-occurrence of defects.</p> <p>3.5 Check saw blade against required curvature using a gauge to identify tensioning requirements.</p> <p>3.6 Obtain tension curvature across and along saw blade.</p> <p>3.7 Check alignment of saw back against tolerances using a gauge; roll non-conforming areas to obtain required tolerance.</p>
4. Repair teeth	<p>4.1 Place saw blade in welding jig for heat application and welding activities.</p> <p>4.2 Check amount of damaged tooth to be removed and mark weld line.</p> <p>4.3 Remove metal to proposed line, prepare metal edge for welding and clean burn marks.</p> <p>4.4 Apply heat and pressure to prepare worn, broken or ground surface for metal build up or replacement.</p> <p>4.5 Build up or replace teeth using material and processes that ensure specified metal penetration and density.</p> <p>4.6 Use weld run-off tabs to limit stress and hollows at saw edges.</p> <p>4.7 Grind or file teeth to required shape, tolerance and pitch.</p> <p>4.8 Dispose of sub-standard saw blades in line with environmental protection practices.</p> <p>4.9 Identify routine processing and equipment faults and resolve or</p>

	report to appropriate personnel.
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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"> • use gauges and straight edges to: • measure results of hammering and/or rolling the blade • measure curvature • check alignment against tolerances.
Oral communication skills to:	<ul style="list-style-type: none"> • ask questions and actively listen to clarify contents of work orders.
Reading skills to:	<ul style="list-style-type: none"> • interpret: • workplace health and safety procedures • work orders • manufacturers' maintenance recommendations.
Writing skills to:	<ul style="list-style-type: none"> • complete accurate basic records for 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 complete necessary levelling and tensioning adjustments and repair work • identify and dispose of unserviceable saws • 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 maintaining frame saw blades • efficiently and safely maintain frame saw blades.

Range of Conditions

Not Applicable

Unit Mapping Information

FPISAW3225B Maintain frame saw blades

Links

Companion Volume implementation guides are found in VETNet -

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