



Australian Government

FWPSAW3220 Maintain wide band saw blades

Release: 2

FWPSAW3220 Maintain wide band saw blades

Modification History

Release	Comments
Release 2	This version released with FWP Forest and Wood Products Training Package Version 3.0.
Release 1	This version released with FWP Forest and Wood Products Training Package Version 2.0.

Application

This unit of competency describes the outcomes required to level, tension, back-gauge, weld and replace teeth on wide band saw blades. Work is completed in a forest products factory setting.

The unit applies to job roles including Sawdoctor and 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

Element	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 maintenance process in line with work order.
2. Assess saw condition	<p>2.1 Follow organisational safety procedures throughout all maintenance and repair processes.</p> <p>2.2 Remove wide band and gang saws from machinery.</p> <p>2.3 Handle saws to avoid damaging teeth.</p> <p>2.4 Clean foreign material on blade surfaces for inspection.</p> <p>2.5 Inspect saw to assess condition of teeth, tips and saw blade.</p> <p>2.6 Check and mark teeth or 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. Level, tension and back-gauge saw blade	<p>3.1 Assess and match 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 levelling and use stretcher or levelling rolls to flatten.</p> <p>3.4 Localise stresses using controlled levelling or rolling patterns 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 and blade cracks	<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 or crack to be repaired and mark weld line.</p> <p>4.3 Remove metal to proposed line, prepare 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 or cracked area 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 edges of saw blade.</p> <p>4.7 Grind or file teeth or cracks to required shape, tolerance and pitch.</p>

	<p>4.8 Dispose of saws with irreparable teeth, tips or blades in line with organisational procedures environmental protection practices.</p> <p>4.9 Identify routine processing and equipment faults and resolve or report to appropriate personnel.</p>
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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: <ul style="list-style-type: none"> 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 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 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 the stages preparation and repair work using 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 wide band saw blades efficiently and safely maintain wide band saw blades.

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
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Code and title current version	Code and title previous version	Comments	Equivalence status
FPISAW3220 Maintain wide band saw blades Release 2	FPISAW3220 Maintain wide band saw blades Release 1	Minor typographical and formatting errors corrected	Equivalent unit

Links

Companion Volume implementation guides are found in VETNet -

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