



Australian Government

FWPSAW3236 Sharpen tipped circular saw blades

Release: 1

FWPSAW3236 Sharpen tipped circular 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 tipped circular saw blade condition, set up for sharpening, and sharpen saw blades with an automated grinder.

The unit applies to individuals who sharpen tipped circular 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 workplace health and safety procedures, 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 tipped circular saws 1.4 Identify workplace environmental protection procedures for minimising and disposing of waste material, cleaning tools and equipment, and maximising energy efficiency 1.5 Select appropriate tools and equipment to sharpen tipped circular saw blades, and check for operational effectiveness according to manufacturer recommendations
2. Assess tipped circular saw blade condition	2.1 Assess cutting performance of blade and determine need to replace or sharpen 2.2 Assess condition of prior repairs, teeth, kerf of the tips, and straightness of blade
3. Set up sharpening equipment	3.1 Select sharpening machine with suitable grinding wheel diameter, and change or dress grinding wheel as required 3.2 Adjust machine settings to suit required blade geometry 3.3 Set saw blade in the machine to ensure tooth profile and geometry are maintained 3.4 Prepare grinding coolant system according to manufacturer instructions
4. Sharpen tipped circular saw blade	4.1 Select saw blade and grinding wheel angles, speeds and feeds to suit 4.2 Sharpen tips to achieve required finish, maintaining original profile and pitch, according to industry standards 4.3 Ensure variations in tooth height and depth of cut are within industry tolerances for concentricity 4.4 Set stock removal rate, wheel speeds, and saw tooth feed rate to achieve industry standards of sharpness 4.5 Remove tipped circular saw blades from sharpening equipment 4.6 Dispose of unserviceable tipped circular saw blades according to environmental protection practices 4.7 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 equipment
Writing	Prepares routine written reports using required format, language and structure
Oral communication	Employs active listening and questioning to clarify content of work orders
Numeracy	- Completes precise calculations to determine angle, pitch, height and depth to which machine teeth are to be machined - Applies standard units of measurement in describing a correct angle, pitch height and depth of machine teeth
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
FWPSAW3236 Sharpen tipped circular saw blades	FWPSAW3212 Sharpen tipped circular saws	Split element 2; minor updates to the 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>