



Australian Government

FWPSAW3233 Sharpen circular saw blades

Release: 1

FWPSAW3233 Sharpen 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 and sharpen circular saw blades with an automatic or manually controlled grinder.

The unit applies to individuals who sharpen circular saw blades used in a saw technician workshop or timber processing facility.

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 work	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 1.3 Identify, assess and take actions to mitigate risks and hazards

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	associated with sharpening circular saw blades 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 equipment for grinding, and check for safety and operational effectiveness according to manufacturer specifications
2. Assess saw blade condition and set up the grinder	2.1 Remove and replace saw blades from sawing equipment 2.2 Assess cutting performance of the blade and determine the need to replace or sharpen 2.3 Assess prior repairs and condition of teeth, set and straightness of blade 2.4 Select grinding machine with suitable wheel characteristics, diameter and thickness and dress and profile wheel to match saw blade profile requirements 2.5 Adjust grinding machine settings to suit required tooth profile geometry, blade set or kerf, blade thickness and diameter to manufacturer recommendations 2.6 Set up saw blade in the grinder with appropriate attachments for tooth pitch
3. Sharpen circular saw blade	3.1 Grind saw blade body before sharpening the tooth to maintain clearance 3.2 Grind tooth profiles to achieve required sharpness, surface finish and back clearance angle 3.3 Maintain tooth profile to industry standards 3.4 Keep variations in tooth height within industry or manufacturer tolerances for concentricity 3.5 Control wheel and saw hand feeds to minimise wear, avoid burn marks and maintain smooth surface finish 3.6 Identify damaged and exhausted circular saw blades and dispose of these according to workplace procedures and environmental protection practices 3.7 Clean the work area and equipment 3.8 Identify and record 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
Numeracy	• Performs precise mathematical calculations to determine correct specifications for grinding teeth to angle, pitch, tooth height and gullet depth • Uses basic mathematical symbols and conventions in completing routine workplace reports
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
FWPSAW3233 Sharpen circular saw blades	FWPSAW3208 Sharpen circular saws	Revised performance criteria and performance evidence to clarify tasks; minor updates to 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>