



Australian Government

FWPSAW3247 Replace tungsten tips

Release: 1

FWPSAW3247 Replace tungsten tips

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 remove worn or damaged tungsten tips from circular saw blades, and braze, clean and prepare replacement tips for grinding and return to service.

The unit applies to individuals who replace tungsten tips 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 replacement	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 replacing tungsten tips 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, and check for operational effectiveness according to manufacturer recommendations
2. Remove worn, damaged or broken tips	2.1 Remove and replace saw blade according to manufacturer instructions 2.2 Assess saw blade condition 2.3 Clean foreign matter from saw and check for defects 2.4 Identify and mark broken tips 2.5 Remove broken tips, minimising damage to the tooth seat, and dispose of according to environmental protection practices 2.6 Repair tooth seats to specified tolerance and dimensions
3. Replace tips	3.1 Set up saw in brazing jig according to manufacturer instructions 3.2 Select brazing material and suitable technique for application and heat control 3.3 Select appropriate replacement tip and braze into position 3.4 Trial braze one tip, check tip is correctly positioned and the silver alloy has flowed evenly to both sides of the tip 3.5 Inspect and verify tip position, side clearance, and joint quality objectives have been achieved 3.6 Set manual or automatic feeds according to number of tips to be brazed 3.7 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
Numeracy	• Uses standard units of measurement and symbols for temperature and volume • Uses basic arithmetic skills to determine amount of brazing material required when replacing tips
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
FWPSAW3247 Replace tungsten tips	FWPSAW3218 Replace tungsten tips	Renamed element; updated performance criteria; revised performance evidence for clarity; updated knowledge evidence	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>