



Australian Government

FWPSAW3238 Replace Stellite tips

Release: 1

FWPSAW3238 Replace Stellite 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 Stellite tips from saw blades and to weld, anneal, clean and prepare replacement tips for grinding and return to service.

The unit applies to individuals who replace Stellite tips 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 replacement	<p>1.1 Review work order to determine job requirements and, where required, seek clarification from appropriate personnel</p> <p>1.2 Review environmental protection procedures and workplace health and safety requirements, including the use of personal protective equipment, equipment lock-out and safe manual handling techniques</p>

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	<p>1.3 Identify, assess and take actions to mitigate risks and hazards associated with replacing Stellite tips</p> <p>1.4 Identify and implement workplace procedures for minimising waste material and maximising energy efficiency</p> <p>1.5 Select appropriate tools and equipment, and check for operational effectiveness according to manufacturer recommendations</p> <p>1.6 Plan replacement process according to work order</p>
2. Prepare tips	<p>2.1 Remove and replace saw blade according to manufacturer instructions</p> <p>2.2 Clean saw of foreign matter and check for defects</p> <p>2.3 Assess saw blade and tip cutting edge condition</p> <p>2.4 Determine tips requiring replacement and compare, check and mark against tolerances</p> <p>2.5 Clean saw, tip and machine contact surfaces to ensure set-up accuracy and efficient heat flow during silver brazing and welding</p>
3. Replace tips	<p>3.1 Set up saw in brazing jig/tipping machine in line with manufacturer instructions</p> <p>3.2 Select consumable material and a suitable technique for application and heat control</p> <p>3.3 Braze or weld one tip into position and check the replacement tip meets enterprise clearance specifications</p> <p>3.4 Trial braze or weld one tip and make necessary adjustments to confirm new tip has correct height, hook angle and side clearances</p> <p>3.5 Set manual or automatic feeds according to the number of tips to be welded</p> <p>3.6 Complete tip replacement and, when required, adjust annealing temperature to the specified range</p> <p>3.7 Repair damaged tips and dispose of irreparable tips according to environmental protection requirements</p> <p>3.8 Clean saw blade and tip surface before checking tip tolerances against specifications</p> <p>3.9 Identify routine processing and equipment faults, and resolve or report to appropriate personnel</p>

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	<ul style="list-style-type: none"> Extracts essential information from operational manuals to determine safe operating procedures for equipment
Writing	<ul style="list-style-type: none"> Prepares routine written reports using the required format, language and structure
Oral communication	<ul style="list-style-type: none"> Employs active listening and questioning to clarify content of work orders
Numeracy	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Understands main tasks, responsibilities and boundaries of own role
Interact with others	<ul style="list-style-type: none"> Uses modes of communication suitable to purpose to confirm and clarify understanding
Get the work done	<ul style="list-style-type: none"> Recognises and responds to routine problems

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPSAW3238 Replace Stellite tips	FWPSAW3219 Replace stellite tips	Revised performance criteria of element 3; clarified performance evidence; minor edits to knowledge evidence; corrected typographical error in the title, and changed unit code for 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>

