



Australian Government

FWPSAW3235 Recondition saw guides

Release: 1

FWPSAW3235 Recondition saw guides

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 review, adjust, grind or machine and replace guides in band saws to assure smooth and straight running.

The unit applies to individuals who recondition guides in a 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 reconditioning	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 reconditioning saw guides 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 repair and maintenance equipment, and check for operational effectiveness according to manufacturer recommendations 1.6 Plan reconditioning process according to work order
2. Recondition guides	2.1 Review condition of saw guides to assess wear 2.2 Select and position guides in guide holding attachment ready for reconditioning 2.3 Examine, dress, replace or sharpen tooling according to safety procedures 2.4 Set up reconditioning equipment 2.5 Remove scored material from the guide by grinding or machining 2.6 Select grinding or machining speeds and feeds to avoid burn marks on guides 2.7 Recondition guides to meet geometric and lubrication requirements of sawing equipment
3. Safely store guides ready for use	3.1 Segregate and dispose of unserviceable guides according to environmental protection practices 3.2 Identify and report low stock and shortages of new guides according to workplace procedures 3.3 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
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Skill	Description
Reading	Extracts essential information from operational manuals to determine safe operating procedures for equipment
Writing	Prepares routine written reports using the required format, language and structure
Oral communication	Employs active listening and questioning to clarify content of work orders
Numeracy	- Completes precise calculations to determine the required tolerance for positioning guides and to reface guides to the correct size and angle - Applies standard units of measurement in describing correct pitch and angle of guides - Uses basic estimation skills to determine grinding wheel speed
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
FWPSAW3235 Recondition saw guides	FWPSAW3211 Recondition guides	Revised element 2 and performance criteria for clarity; updated performance evidence for mapping; 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>

Assessment Requirements for FWPSAW3235 Recondition saw guides

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Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.

There must be evidence that, on at least one occasion, the individual has:

- followed work order and relevant workplace health and safety and environmental protection procedures
- assessed condition of the saw guide
- machined saw guide
- adjusted saw guide
- safely stored guides for use.

Knowledge Evidence

An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:

- purpose, features and operation of band saws for which guides are reconditioned
- features and names of different parts of guides and carriers
- purpose, features and operation of tools and equipment used to recondition guides and spacers:
 - grinding equipment
 - metal lathes
 - milling machines
 - router and jig
- importance of reconditioning worn guides and spacers to the specified profile for continued straight and smooth running of saw blades
- methods for:
 - assessing the condition of guides
 - grinding guide surface to restore it to a smooth flat surface using grinding equipment

- machining guide surface to restore it to a smooth flat surface using metal lathes or milling machines
- basic knowledge of physics of sawing:
 - saw blade material and properties
 - impact of timber properties on saw blades
 - direction of cut
 - forces on a blade
 - heat removal
- angles at which guides are ground or are machined (geometry)
- range of speeds at which grinders and machines can be operated without damaging guides and spacers
- types of risk and hazards and mitigation measures associated with reconditioning guides
- workplace policies and procedures specific to reconditioning guides:
 - workplace health and safety, with particular emphasis on equipment lock-out, use of personal protective equipment (PPE) and safe manual handling techniques
 - communication reporting lines
 - recording and reporting of processing and equipment faults
- environmental protection practices for repairing and maintaining tools and equipment in sawmills:
 - reducing water and energy use
 - cleaning plant, tools and equipment
 - disposing of, recycling and reusing materials.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated in a sawmill or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - one or more of the following tools and equipment used to recondition guides: grinding equipment, metal lathe, milling machines and router and jig
 - band saws with guides to be reconditioned
 - replacement guides
 - PPE suitable for reconditioning guides
- specifications:
 - template documents for recording processing and equipment faults
 - manufacturer instructions for use, repair and maintenance of equipment
 - work order with specific instructions for reconditioning guides in specified equipment
 - workplace procedures for reconditioning guides.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

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