



Australian Government

FWPSAW3211 Recondition guides

Release: 1

FWPSAW3211 Recondition guides

Modification History

Release	Comment
1	Replaces equivalent unit FPISAW3211B Recondition guides, which was first released with FPI11 Forest and Forest Products Training Package Version 2.2. This is the first release of this unit in the new standards format.

Application

This unit of competency describes the outcomes required to review, adjust, grind or machine and replace saw guides in band saws and gang saws assuring smooth and straight running. Work is completed in a forest products factory setting.

The unit applies to Sawdoctor, Saw Repairer.

No licensing, legislative, regulatory, or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Unit Sector

Sawmilling and Processing

Elements and Performance Criteria

<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the range of conditions.</i>
1. Prepare for reconditioning	1.1 Review work order and where required check with appropriate personnel. 1.2 Remove guides from machinery. 1.3 Select appropriate repair, maintenance and personal protective equipment and check for operational effectiveness in line with manufacturer's recommendations. 1.4 Plan reconditioning process in line with work order.

2. Machine guides	2.1 Follow organisational safety procedures throughout all maintenance and repair processes. 2.2 Review condition of saw guides to assess wear. 2.3 Select attachments for holding guides flat while grinding or machining. 2.4 Set up machining equipment to conduct reconditioning. 2.5 Examine and dress or sharpen tooling in line with safety procedures. 2.6 Remove scored material from guide by grinding or machining. 2.7 Select grinding or machining speeds and feeds to avoid burn marks on guides. 2.8 Recondition guides to meet geometric requirements of sawing equipment. 2.9 Segregate and dispose of unserviceable guides in line with environmental protection practices.
3. Remove, adjust and replace guides	3.1 Remove worn guides from carrier without damaging component. 3.2 Select replacement guides according to manufacturer's instructions. 3.3 Drill fastening holes and clean up surfaces around drill holes. 3.4 Insert new guides in carrier at correct position and required tolerance without damaging component. 3.5 Adjust guides to clearance in line with manufacturer's instructions. 3.6 Check clearance and guide security before starting saw. 3.7 Identify and report low stock and shortages of new guides in line with organisational procedures. 3.8 Identify routine processing and equipment faults and resolve or report to appropriate personnel.

Foundation Skills

This section describes those core and employment skills that are essential to performance and are not explicit in the performance criteria.

Numeracy skills to:

- estimate required grinding wheel speed
- complete precise calculations to
- grind and sharpen guides to correct pitch and angle

	determine required tolerance for positioning guides.
Oral communication skills to:	ask open and closed probe questions and actively listen to clarify contents of work orders.
Reading skills to:	- interpret documents: - workplace health and safety and other organisational procedures - work orders - manufacturers' instructions and maintenance recommendations.
Writing skills to:	- complete accurate basic records for: - processing and equipment faults - stock requirements.
Planning and organising skills to:	efficiently and logically sequence the stages of preparation and repair work using work order to guide activities.
Problem-solving skills to:	- assess guide condition and rectify faults through correct reconditioning process - identify and dispose of unserviceable guides - recognise faulty equipment and resolve by reporting or rectifying.
Technology skills to:	- select and use appropriate repair, maintenance and personal protective equipment for reconditioning guides - efficiently and safely recondition guides.

Range of Conditions

Not Applicable

Unit Mapping Information

FPISAW3211B Recondition guides

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47>

Assessment Requirements for FWPSAW3211 Recondition guides

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1	Replaces equivalent unit FPISAW3211B Recondition guides, which was first released with FPI11 Forest and Forest Products Training Package Version 2.2. This is the first release of this unit in the new standards format. Assessment requirements now specify the performance and knowledge evidence, as well as assessment conditions for this unit of competency. These sections simplify and replace components used in the previous unit format, including Required Skills and Knowledge, Evidence Guide and Range Statement

Performance Evidence

A person demonstrating competency in this unit must satisfy all of the elements, performance criteria and foundation skills of this unit. If a specific volume or frequency is not stated below, then evidence must be provided that the following requirements have been performed on at least one occasion:

- follow organisational policies and procedures relevant to reconditioning guides
- recondition guides in line with the work order and within prescribed organisational requirements
- remove and replace saw guides from equipment
- assess the condition of guides in line with standard operating procedures

Knowledge Evidence

A person competent in this unit must be able to demonstrate knowledge of:

- purpose, features and operation of band saws and gang 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:
 - grinding equipment
 - metal lathes
 - milling machines
- importance of reconditioning worn guides to the specified profile for continued straight and smooth running of saw blades
- methods for:
 - removing guides from saw blade carriers
 - assessing 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
- re-inserting guides to carriers within allowable tolerances and adjusting clearances
- pitch and angles at which guides are ground or are sharpened (geometry)
- range of speeds at which grinders and machines can be operated without damaging guides
- organisational policies and procedures specific to reconditioning guides:
 - workplace health and safety with particular emphasis on equipment lock out and use of personal protective equipment
 - communication reporting lines
 - recording and reporting processing and equipment faults
- environmental protection practices for repairing and maintaining tools and equipment in forest products factory settings:
 - reducing water and energy use
 - cleaning plant, tools and equipment
 - disposing of, recycling and reusing materials

Assessment Conditions

The following resources must be made available:

- tools and equipment used to recondition guides:
- grinding equipment
- metal lathes
- milling machines
- band saws or gang saws with guides to be reconditioned
- replacement guides
- personal protective equipment suitable for reconditioning guides
- manufacturers' instructions for use, repair and maintenance of equipment
- work order for repair and maintenance activities with specific instructions for reconditioning guides in specified equipment
- template documents for recording processing and equipment faults
- organisational policies and procedures for reconditioning guides.

Competency is to be assessed in the workplace or a simulated environment that accurately reflects performance in a real workplace setting.

Assessor requirements

Assessors must:

- hold the appropriate assessor competency standards as outlined in regulations; and
- be able to demonstrate vocational competencies at least to the level being assessed; and
- be able to demonstrate how they are continuing to develop their VET knowledge and skills as well as maintaining their industry currency and assessor competence.

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