



Australian Government

FWPSAW3210 File and set saws

Release: 2

FWPSAW3210 File and set saws

Modification History

Release	Comments
Release 2	This version released with FWP Forest and Wood Products Training Package Version 3.0.
Release 1	This version released with FWP Forest and Wood Products Training Package Version 2.0.

Application

This unit of competency describes the outcomes required to position blades in jigs or vices, produce bevels along the back clearance angles of teeth, check blade clearance requirements and set teeth to site requirements. Work is completed in a forest products factory setting.

The unit applies to Sawdoctor, Saw Repairer, Sawyer.

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

Element	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 filing and saw setting	1.1 Review work order and, where required, check with appropriate personnel. 1.2 Select appropriate repair, maintenance and personal protective equipment and check for operational effectiveness in line with manufacturer's recommendations.

	1.3 Plan setting process in line with work order. 1.4 Follow organisational safety procedures throughout all maintenance and repair processes.
2. Set saw	2.1 Set up saw in selected jig to enable setting work. 2.2 Check kerf and finish requirements to suit machine horsepower, saw type and cutting conditions. 2.3 Examine individual teeth to check amount of setting required. 2.4 Maintain welding condition, saw temper and consistency of set between alternate teeth. 2.5 Measure and assess teeth for correct setting. 2.6 Bevel teeth and assess bevel length. 2.7 Apply set to teeth and allow for estimated spring back. 2.8 Check set to teeth using gauges in line with organisational procedures. 2.9 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:	- complete precise calculations to file and set saws to correct angle - estimate springback.
Oral communication skills to:	ask open and closed probe questions and actively listen to clarify contents of work orders.
Reading skills to:	- interpret: - workplace health and safety procedures - work orders - manufacturer's maintenance recommendations.
Writing skills to:	complete basic accurate records of processing and equipment faults.
Planning and organising skills to:	efficiently and logically sequence stages of preparation and repair work using work order to guide activities.
Problem-solving skills	assess condition of saw teeth and complete necessary

to:	adjustments to set recognise faulty equipment and resolve by reporting or rectifying.
Technology skills to:	- select and use appropriate repair, maintenance and personal protective equipment for filing and setting saws - efficiently and safely file and set saws.

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPSAW3210 File and set saws Release 2	FWPSAW3210 File and set saws Release 1	Minor typographical errors corrected.	Equivalent unit

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 FWPSAW3210 File and set saws

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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 filing and setting saws
- bevelling teeth and assessing bevel lengths, widths, angles and surface texture, in line with standard operating procedures and site production requirements
- removing and replacing saws from equipment
- setting teeth and assessing conditions in line with standard operating procedures
- complete these assessments on saw blade condition:
 - cracks and movement in existing welding repairs
 - altered temper and hardness of blade from excessive heat during cutting
 - weaknesses or damage caused through stress of bending teeth.

Knowledge Evidence

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

- purpose, features and operation of saws for which blades are filed and set:
 - hand saws
 - band saws
 - circular saws
 - gang saws
- features and names of different parts of saw blades
- purpose, features and operation of tools and equipment used to file and set saw blades:
 - jigs
 - vices

- setting instruments; levers and gauges
- automatic or hand-held grinders
- bevel files
- importance of setting teeth to match requirements for:
 - characteristics of various materials sawn
 - speed of the sawing process
 - direction of the sawing process
 - cutting angle for sawing
 - saw blade specifications
- methods for:
 - removing saw blades from saws
 - assessing saw blade condition
 - setting teeth to a specified profile
 - grinding and bevelling teeth to required shape, tolerance and pitch
 - compensating for the effects of spring back
- tooth pitch and tooth angles at which blades are bevelled (blade geometry)
- characteristics of metal used in saw blades; causes and consequences of spring back
- organisational policies and procedures specific to filing and setting saw blades:
 - 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.
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Assessment Conditions

The following resources must be made available:

- tools and equipment used to file and set saw blades:
 - jigs
 - vices
 - setting instruments; levers and gauges
 - automatic or hand-held grinders
 - bevel files
- one or more of the following types of saws to be repaired and maintained:
 - hand saws
 - band saws

- circular saws
- gang saws
- personal protective equipment suitable for filing and setting saw blades
- manufacturers' instructions for use, repair and maintenance of equipment
- work order for repair and maintenance activities with specific instructions for filing and setting saw blades in specified equipment
- relevant personnel for the purposes of communicating information
- template documents for recording processing and equipment faults
- organisational policies and procedures for filing and setting saw blades.

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.

Links

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