



Australian Government

FWPSAW3248 Profile saw blanks

Release: 1

FWPSAW3248 Profile saw blanks

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 calculate blade lengths and to produce tooth profiles to work orders and specifications.

The unit applies to individuals who profile saw blanks in a forest and forest product factory setting.

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 profiling	1.1 Review work order to determine job requirements and, where required, seek clarification from appropriate personnel 1.2 Review workplace health and safety requirements, 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 associated with profiling saw blanks 1.4 Identify workplace environmental protection procedures for minimising and disposing of waste material, cleaning tools and

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	equipment, and maximising energy efficiency 1.5 Select appropriate tools and equipment, and check for operational effectiveness according to manufacturer recommendations 1.6 Plan profiling process in line with work order and workplace requirements
2. Profile blanks	2.1 Calculate key saw blade dimensions 2.2 Obtain calculated blank length or cut from ribbon stock 2.3 Set up press with punches to suit saw dimensions 2.4 Punch first tooth in blank to align other teeth 2.5 Punch remaining teeth to required pitch and tooth profile 2.6 Assess performance of profiling equipment 2.7 Dispose of irreparable saw blanks according to environmental protection practices 2.8 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
Reading	Extracts key information from operational manuals to determine safe operating procedures for equipment
Writing	Prepares routine written reports using required format, language and structure
Oral communication	Employs active listening and questioning to clarify content of work orders
Numeracy	- Performs precise calculations to profile blade saws in terms of length, width, pitch, gullet depth, and hook and back clearance angles - Uses standard units of measurement for angles, length, width and depth

Skill	Description
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
FWPSAW3248 Profile saw blanks	FWPSAW3221 Profile saw blanks	Reworded application; added performance criteria relating to workplace health and safety; revised performance evidence for mapping; updated foundation skills	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 FWPSAW3248 Profile saw blanks

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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 the individual has, on at least one occasion, profiled saw blanks, and has:

- followed work order and relevant workplace health and safety and environmental protection procedures
- operated equipment to profile saw blanks
- set up punch and die kits or other equipment used for profiling saw teeth
- calculated the following saw blade dimensions according to manufacturer specifications and timber processing requirements:
 - width
 - length
 - pitch
 - gullet depth
 - hook and back clearance angles
 - number of teeth
- assessed the performance of profiling equipment and completed basic written records for:
 - edge finish
 - wear rates
 - production rates
 - distortion.

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, wide band and gang saws for which saw blanks are profiled
- features and names of different parts of band saw blades

- purpose, features and operation of tools and equipment used to profile saw blanks:
 - power fly presses
 - punch systems
- importance of profiling saw blanks 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:
 - calculating key saw dimensions
 - profiling, pressing and punching saw blanks to required pitch and tooth profile
 - aligning saw teeth
- assessing performance of profiling equipment for:
 - edge finish
 - wear rates
 - production rates
 - distortion
- workplace procedures specific to profiling saw blanks:
 - workplace health and safety, with particular emphasis on equipment lock-out and use of personal protective equipment (PPE)
 - communication reporting lines
 - recording and reporting of 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

Assessment of skills must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated in a forest product factory setting or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - one or more of the following types of tools and equipment used to profile saw blanks: power fly presses or punch systems
 - ribbon stock for large heavy duty band, wide band and gang saw blades
 - PPE suitable for profiling saw blanks
 - documents, spreadsheets and proformas for recording processing and equipment faults

- specifications:
 - manufacturer instructions for use, repair and maintenance of equipment
 - work order for repair and maintenance activities, with specific instructions for profiling saw blanks for specified equipment
 - workplace procedures for profiling saw blanks.

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

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