



Australian Government

FWPSAW3246 Hard face saw teeth

Release: 1

FWPSAW3246 Hard face saw teeth

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 set the hard face machine and hard face the teeth of band, circular and gang saw blades.

The unit applies to individuals who hard face saw teeth 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 to hard face saw teeth	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 associated with hard facing saw teeth 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 for hard facing, and check for operational effectiveness according to manufacturer recommendations 1.6 Plan hard facing process according to work order
2. Hard face saw teeth	2.1 Remove and replace saw blade according to manufacturer instructions 2.2 Assess condition of saw blade 2.3 Select material stock and set up in machine according to manufacturer recommendations 2.4 Make adjustments to machine variables to suit saw and material 2.5 Align individual teeth to machine tip to ensure hard facing is applied to cutting surfaces 2.6 Operate and adjust machine for variables to ensure material cohesion 2.7 Assess completed facing against specifications 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	Uses standard units of measurement and symbols for temperature, measurement, pressure, current, voltage and time

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
FWPSAW3246 Hard face saw teeth	FWPSAW3217 Hard face saw teeth	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 FWPSAW3246 Hard face saw teeth

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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, hard faced saw teeth, and has:

- followed work order and relevant workplace health and safety and environmental protection procedures
- hard faced saw teeth according to work order and workplace requirements
- removed and replaced saw blade from equipment.

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 saws for which teeth blades are hard faced:
 - 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 hard face saw teeth:
 - resistance welding equipment
 - plasma transfer equipment
- methods for:
 - assessing saw blade condition
 - cohering the face to the existing face of saw blade teeth
 - assessing completed facings against specifications
- variable settings for machine operations and effects on material cohesion:
 - pressure
 - temperature
 - current

- voltage
- weld time
- vacuum
- workplace procedures specific to hard facing saw teeth:
 - 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:
 - resistance welding equipment
 - plasma transfer equipment
 - blade saws to be hard faced: band saws, circular saws, gang saws
 - hard compound metal used to hard face saw teeth
 - PPE suitable for hard facing saw teeth
- specifications:
 - manufacturer instructions for use, repair and maintenance of equipment
 - work order for repair and maintenance activities, with specific instructions for hard facing saw teeth in specified equipment
 - documents, spreadsheets and proformas for recording processing and equipment faults
 - organisational policies and procedures for hard facing saw teeth.

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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