



**Australian Government**

# **FWP31021 Certificate III in Saw Technology**

**Release 2**

# FWP31021 Certificate III in Saw Technology

## Modification History

Release	Comments
Release 2	This version released with FWP Forest and Wood Products Training Package Version 8.0.
Release 1	This version released with FWP Forest and Wood Products Training Package Version 7.0.

## Qualification Description

This qualification reflects the job role of Saw Technicians who service, maintain and align saw blades, knives and guides for timber sawmilling machines and other applications. Saw Technicians may also inspect, test, maintain and troubleshoot mechanical components on sawing machine centres to achieve sawing production rates and product tolerances.

The elective groups and units of competency within this qualification can provide Saw Technicians with two pathway options. Saw Technicians can use the qualification to develop skills in performing general saw servicing operations or develop skills in saw maintenance engineering roles.

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

## Entry Requirements

There are no entry requirements for this qualification.

## Packaging Rules

To achieve this qualification, competency must be demonstrated in:

- 26 units of competency:
  - 7 core units plus
  - 19 elective units.

Elective units must ensure the integrity of the alignment between the qualification and the Australian Qualifications Framework (AQF) and contribute to a valid, industry-supported vocational outcome. The electives are to be chosen as follows:

- all 4 units must be selected from either Group A or Group B
- a minimum of 8 units must be selected from Group C

- remaining units can be selected from Group C and/or Group D and can include up to 2 units from any currently endorsed Training Package or accredited course.

Elective units must be relevant to work undertaken in the sawmilling and processing sector of the industry.

### Core Units

BSBTWK201	Work effectively with others
FWPCOT3279	Assess and maintain saw technology tools
FWPCOT3283	Sharpen and position blades or knives in chipper, canter and reducer
FWPCOT3286	Identify levelling and tensioning requirements for saw blades
FWPCOT3290	Apply knowledge of timber properties, sawmill operations and sawmilling equipment
FWPSAW3247	Replace tungsten tips
FWPSAW3251	Apply principles of blade design to sawing procedures

### Elective Units

An asterisk (\*) next to the unit code indicates that there are prerequisite requirements which must be met when packaging the qualification. Please refer to the Prerequisite requirements table for details.

#### Group A – General electives (service operations)

FWPCOR2206	Work effectively in the forest and wood products industry
FWPCOR2208	Communicate and interact effectively in the forest and wood products industry
FWPCOR3205	Apply safety, health and environmental requirements in forest and wood products operations
MEM30032	Produce basic engineering drawings

#### Group B – General electives (maintenance engineering)

MEM09002 *	Interpret technical drawing
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MEM13015	Work safely and effectively in manufacturing and engineering
MEM14006 *	Plan work activities
MEM16006 *	Organise and communicate information

### Group C – Saw technology (service operations)

#### Servicing saw blades and guides

FWPCOT3280	Replace saw blades, knives and guides
FWPCOT3282	Assess and maintain saw blade and sawing machine performance
FWPCOT3287	Operate CNC equipment for grinding, tensioning and levelling saw blades
FWPCOT3294	Swage and shape saw blades
FWPSAW3232	Sharpen band saw blades
FWPSAW3233	Sharpen circular saw blades
FWPSAW3235	Recondition saw guides
FWPSAW3236	Sharpen tipped circular saw blades
FWPSAW3237	Level and tension circular saw blades
FWPSAW3238	Replace Stellite tips
FWPSAW3239	Assess and maintain wide band saw blades

#### Servicing cutters for timber processing

FWPCOT3276	Sharpen cutters using a straight knife grinder
FWPCOT3277	Sharpen cutters in head using a profile knife grinder
FWPCOT3278	Sharpen cutters in head using a straight knife grinder
FWPCOT3281	Manufacture profile cutters
FWPCOT3295	Assess and maintain cutter performance

FWPCOT3298	Produce templates
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### **Servicing sawing machine**

FWPSAW3240	Assess and maintain band saw wheels
FWPSAW3244	Align sawing production systems

### **Other services**

FWPCOT2269	Operate and maintain a table saw
FWPCOT3271	Hand sharpen knives and blades for commercial and domestic cutting services
FWPSAW3234	File and set saw blades for hand saws and circular saws

## **Group D – Saw technology (maintenance engineering)**

### **Mechanical maintenance**

FWPCOT3335	Conduct operator level equipment maintenance in forest and wood products industry
MEM11011 *	Undertake manual handling
MEM12023 *	Perform engineering measurements
MEM12024 *	Perform computations
MEM18001 *	Use hand tools
MEM18002 *	Use power tools/hand held operations
MEM18055 *	Dismantle, replace and assemble engineering components

### **Welding**

FWPSAW3245	Join band saw blades
MEM05006 *	Perform brazing and/or silver soldering
MEM05049 *	Perform routine gas tungsten arc welding

MEM05050 *	Perform routine gas metal arc welding
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### Quality processes

FWPCOT3291	Apply principles of timber and process optimisation in sawmill operations
FWPCOT3327	Contribute to energy efficiency in the forest and wood products industry
FWPCOT3349	Assess timber against quality requirements and specifications
MSMSUP390	Use structured problem-solving tools
MSS402042	Apply 5S procedures
MSS404056	Apply statistics to operational processes

### Prerequisite requirements

Units listed in the *Prerequisite requirement* column that have their own prerequisite requirements are shown with an asterisk (\*)

Unit of competency	Prerequisite requirement
MEM05006 Perform brazing and/or silver soldering	MEM11011 Undertake manual handling * MEM13015 Work safely and effectively in manufacturing and engineering MEM16006 Organise and communicate information *
MEM05049 Perform routine gas tungsten arc welding	MEM11011 Undertake manual handling * MEM13015 Work safely and effectively in manufacturing and engineering MEM16006 Organise and communicate information *
MEM05050 Perform routine gas metal arc welding	MEM11011 Undertake manual handling * MEM13015 Work safely and effectively in manufacturing and engineering MEM16006 Organise and communicate information *

MEM09002 Interpret technical drawing	MEM12023 Perform engineering measurements * MEM12024 Perform computations * MEM13015 Work safely and effectively in manufacturing and engineering MEM16006 Organise and communicate information *
MEM11011 Undertake manual handling	MEM13015 Work safely and effectively in manufacturing and engineering MEM16006 Organise and communicate information *
MEM12023 Perform engineering measurements	MEM13015 Work safely and effectively in manufacturing and engineering MEM16006 Organise and communicate information *
MEM12024 Perform computations	MEM13015 Work safely and effectively in manufacturing and engineering MEM16006 Organise and communicate information *
MEM14006 Plan work activities	MEM13015 Work safely and effectively in manufacturing and engineering MEM16006 Organise and communicate information *
MEM16006 Organise and communicate information	MEM13015 Work safely and effectively in manufacturing and engineering
MEM18001 Use hand tools	MEM11011 Undertake manual handling MEM13015 Work safely and effectively in manufacturing and engineering MEM16006 Organise and communicate information*
MEM18002 Use power tools/hand held operations	MEM11011 Undertake manual handling MEM13015 Work safely and effectively in manufacturing and engineering MEM16006 Organise and communicate information *
MEM18055 Dismantle, replace and assemble	MEM09002 Interpret technical drawing *

engineering components	MEM11011 Undertake manual handling * MEM12023 Perform engineering measurements * MEM13015 Work safely and effectively in manufacturing and engineering MEM16006 Organise and communicate information * MEM18001 Use hand tools * MEM18002 Use power tools/hand held operations *
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## Qualification Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWP31021 Certificate III in Saw Technology Release 2	FWP31021 Certificate III in Saw Technology Release 1	Added a unit and updated a native unit code in the elective list	Equivalent

## Links

Companion Volumes, including Implementation Guides, are available at VETNet: - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47>