Australian Government

FWP31019 Certificate III in Saw Technology

Release 1

FWP31019 Certificate III in Saw Technology

Modification History

Release	Comments
Release 1	This version released with FWP Forest and Wood Products Training Package Version 5.0

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 qualification's Australian Qualification Framework (AQF) alignment and contribute to a valid, industry-supported vocational outcome. The electives are to be chosen as follows:

- All 4 units from either Group A or Group B
- A minimum of 8 units from Group C
- Remaining 7 units from Group C and/or Group D
- 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

BSBFLM312	Contribute to team effectiveness
FWPCOT3279	Assess and maintain saw technology tools
FWPCOT3283	Sharpen and position blades or knives for 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. All prerequisite units are included in the qualification.

Group A – General electives (service operations)

FWPCOR2201	Work effectively in the forest and forest products industry
FWPCOR2202	Communicate and interact effectively in the workplace
FWPCOR3201	Implement safety, health and environment policies and procedures
FWPCOT3204	Prepare and interpret sketches and drawings

Group B – General electives (maintenance engineering)

MEM09002*	Interpret technical drawing
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

Servicing sawing machine

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

Other services

FWPCOT2245	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

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

Quality processes

FWPCOT3263	Maintain and contribute to energy efficiency

FWPCOT3285	Apply knowledge of wood technology principles to end use applications
FWPCOT3291	Apply principles of timber and process optimisation in sawmill operations
MSMSUP390	Use structured problem-solving tools
MSS402040	Apply 5S procedures
MSS404054	Apply statistics to operational processes

Prerequisite requirements

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
MEM14006 Plan work activities	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
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 engineering components	MEM09002 Interpret technical drawing 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

Qualification Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWP31019 Certificate III in Saw Technology	FWP30716 Certificate III in Sawdoctoring	Qualification updated to reflect new name, additional units added to the core, units removed,	No equivalent qualification

Code and title current version	Code and title previous version	Comments	Equivalence status
		and additional imported units added	

Links

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

Skills Impact