



**Australian Government**

# **FWP31121 Certificate III in Wood Machining**

**Release: 1**

## FWP31121 Certificate III in Wood Machining

### Modification History

Release	Comments
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 Wood Machinists who work in a sawmill or other timber processing environment and set up, operate and maintain machines such as large automated planers/moulders and saws to cut, plane and profile timber to specifications. This involves interpreting work orders to establish job requirements, selecting and setting up knives and cutters to machinery, aligning knives, operating machines to cut, plane and profile timber, and cleaning and maintaining machines and equipment.

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:

- 27 units of competency:
  - 8 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:

- a minimum of 8 units must be selected from Group A
- a minimum of 4 units must be selected from Group B
- remaining units can be selected from Group A, B, C and/or 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
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
FWPCOT2257	Use hand-held tools
FWPCOT3290	Apply knowledge of timber properties, sawmill operations and sawmilling equipment
FWPCOT3322	Apply quality and product care procedures in forest and wood products operations
MSFDN4003	Produce patterns and templates

### 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 – Operating timber processing machines

FWPCOT2244	Operate and maintain a thicknesser
FWPCOT2245	Operate and maintain a table saw
FWPCOT3235	Machine material using CNC machining and processing centres
FWPCOT3272	Set up and run multi-head moulder/planer to produce simple profiles
FWPCOT3273	Set up and run multi-head moulder to produce complex profiles
FWPCOT3274	Cut timber products using high-speed optimiser
FWPCOT3275	Set up, operate and maintain end matching machines
FWPCOT3288	Set up, operate and maintain finger jointing machines
FWPCOT3289	Load and prove operating program for CNC machine

FWPSAW3241	Set up and operate production saws used in sawmill operations
MSFFM3012	Set up, operate and maintain sawing machines
MSFFM3017	Set up, operate and maintain routing and shaping machines

### Group B – Grinding and maintaining cutting tools

FWPCOT3271	Hand sharpen knives and blades for commercial and domestic cutting services
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
FWPCOT3280	Replace saw blades, knives and guides
FWPCOT3281	Manufacture profile cutters
FWPCOT3283	Sharpen and position blades or knives in chipper, canter and reducer
FWPCOT3286	Identify levelling and tensioning requirements for saw blades
FWPCOT3295	Assess and maintain cutter performance
FWPCOT3298	Produce templates
FWPSAW3233	Sharpen circular saw blades
FWPSAW3237	Level and tension circular saw blades
FWPSAW3247	Replace tungsten tips
FWPSAW3251	Apply principles of blade design to sawing procedures

### Group C – Grading and testing timber

FWPCOT2246	Appearance grade hardwood sawn and milled products
FWPCOT2249	Visually stress grade hardwood

FWPCOT2250	Visually stress grade softwood
FWPCOT2251	Visually stress grade cypress
FWPCOT3285	Apply knowledge of wood technology principles to end use applications
FWPCOT3292	Calibrate and maintain scanning equipment used in sawmilling operations
FWPCOT3293	Use scanning equipment for timber grading

### Group D – General electives

FWPCOT2243	Tail out timber product and waste material
FWPCOT3291	Apply principles of timber and process optimisation in sawmill operations
FWPCOT3304	Take off material quantities
FWPCOT3307	Create drawings using computer aided design software
FWPCOT3327	Contribute to energy efficiency in the forest and wood products industry
FWPTMM420 4	Sample and test products to specifications
MSMSUP390	Use structured problem-solving tools
MSS402040	Apply 5S procedures
MSS404054	Apply statistics to operational processes

### Qualification Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWP31121 Certificate III in Wood Machining	FWP31119 Certificate III in Wood Machining	Updated imported and native unit codes  New qualification code	Equivalent

## Links

Companion Volumes, including Implementation Guides, are available at VETNet: -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47>