Australian Government

# FWP31121 Certificate III in Wood Machining

**Release 2**

# FWP31121 Certificate III in Wood Machining

## 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 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 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:

* 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 |
|---|---|
| FWPCOT2269 | Operate and maintain a table saw |
| 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 |
| FWPCOT3289 | Load and prove operating program for CNC machine |

| FWPCOT3332 | Machine timber or engineered wood products using CNC machining and processing centres |
| --- | --- |
| FWPCOT3336 | Coordinate set up and operation of timber finger jointing line |
| FWPCOT3337 | Operate timber finger jointing line |
| FWPSAW3255 | Operate conventional log breakdown saw line |
| MSFFM3032 | Set up, operate and maintain sawing machines |
| MSFFM3037 | 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 |
| FWPCOT3292 | Calibrate and maintain scanning equipment used in sawmilling operations |
| FWPCOT3293 | Use scanning equipment for timber grading |
| FWPCOT3349 | Assess timber against quality requirements and specifications |
| FWPTMM4213 | Test finger jointed timber |
| FWPTMM4214 | Test laminated wood product |
| MSL973022 | Conduct laboratory-based acceptance tests for construction materials |
| MSMSUP292 | Sample and test materials and product |

## 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 |
| FWPCOT3335 | Conduct operator level equipment maintenance in forest and wood products industry |
| MSMSUP390 | Use structured problem-solving tools |

| MSS402042 | Apply 5S procedures |
|-----------|---------------------|
| MSS404056 | 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 Release 2 | FWP31121 Certificate III in Wood Machining Release 1 | Added units and updated native unit codes and titles 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