



Australian Government

MSF30313 Certificate III in Timber and Composites Machining

Release 2

MSF30313 Certificate III in Timber and Composites Machining

Modification History

Release 2 - Imported units updated. Equivalent.

Release 1 - New qualification

Qualification Description

This qualification describes the skills and knowledge required to perform timber and composites machining for the manufacture of furniture, cabinetry, windows and doors, and other components utilising a range of specialist machinery, and includes preparing and working from drawings and cutting lists. The skills include static and computer numerically controlled (CNC) machine set up, operation maintenance and basic troubleshooting.

There are three possible specialist streams embedded in this qualification:

Stream 1 -- Flat Panel Machining

Stream 2 – Solid Timber Machining

Stream 3 – Machining Technician

Units may be chosen from the specialist stream elective groups to achieve any of the three specialisations or a broad combination of competencies can be selected from all electives with no identified specialisation.

Where specialisation is achieved, RTOs should identify this as follows:

**MSF30313 Certificate III in Timber and Composites Machining
(Flat Panel Machining)**

or

**MSF30313 Certificate III in Timber and Composites Machining
(Solid Timber Machining)**

or

**MSF30313 Certificate III in Timber and Composites Machining
(Machining Technician)**

There are no specific licences that relate to this qualification. However, depending on the jurisdiction, licensing or regulatory requirements may apply to the use of some units in this qualification. Local regulations should be checked for details.

Entry Requirements

Not applicable

Packaging Rules

To be awarded the MSF30313 Certificate III in Timber and Composites Machining, competency must be achieved in **twenty-seven (27)** units of competency.

- **eleven (11)** core units of competency
- **sixteen (16)** elective units of competency.

Note: Units marked with an asterisk have one or more prerequisites and must be considered in the total number of units. Please refer to individual units for details.

CORE UNITS

Complete all **eleven (11)** units from this list.

| Unit code | Unit title |
|-----------|---|
| MSMENV272 | Participate in environmentally sustainable work practices |
| MSMWHS200 | Work safely |
| MSMSUP102 | Communicate in the workplace |
| MSMSUP106 | Work in a team |
| MSFFM2001 | Use furniture making sector hand and power tools |
| MSFFM2010 | Set up and operate basic static machines |
| MSFFM3009 | Produce manual and computer-aided production drawings |
| MSFFM3010 | Prepare cutting list from plans and job specifications |
| MSFGN2001 | Make measurements and calculations |
| MSFGN3001 | Read and interpret work documents |
| MSFGN3002 | Estimate and cost job |

ELECTIVE UNITS

Select **sixteen (16)** units from Groups A, B, C, D or E as specified below.

Group A

Select a minimum of **seven (7)** units from Group A for a specialisation in **Stream 1 - Flat Panel Machining**

| Unit code | Unit title |
|-----------|--------------------------------|
| MSFFF2004 | Prepare surfaces for finishing |

| Unit code | Unit title |
|-----------|--|
| MSFFM2002 | Assemble furnishing components |
| MSFFM2004 | Apply sheet laminates by hand |
| MSFFM2007 | Follow plans to assemble production furniture |
| MSFFM2011 | Apply manufactured board conversion techniques |
| MSFFM3012 | Set up, operate and maintain sawing machines |
| MSFFM3013 | Set up, operate and maintain drilling machines |
| MSFFM3019 | Set up, operate and maintain automated edge banding machines |
| MSFFM3020 | Fabricate synthetic solid surface products |

Group B

Select a minimum of **seven (7)** units from Group B for a specialisation in **Stream 2 – Solid Timber Machining**

| Unit code | Unit title |
|------------|--|
| MSFFDT4009 | Set up, operate and maintain basic static woodworking machines for furniture designs |
| MSFFM2005 | Join solid timber |
| MSFFM3008 | Select timbers for furniture production |
| MSFFM3014 | Set up, operate and maintain joining machines |
| MSFFM3015 | Set up, operate and maintain planing and finishing machines |
| MSFFM3016 | Set up, operate and maintain multi-head planing and moulding machines |
| MSFFM3017 | Set up, operate and maintain routing and shaping machines |
| MSFFM3018 | Set up, operate and maintain mechanical wood-turning lathes |
| MSFFM3024 | Construct jigs and fixtures |

Group C

Select a minimum of **seven (7)** units from Group C for a specialisation in **Stream 3 –Machining Technician**

| Unit code | Unit title | Prerequisites |
|-------------|---|---------------|
| LMTGN4012A | Fabricate or machine tooling | |
| MEM07001B | Perform operational maintenance of machines/equipment | * |
| MEM14003B | Undertake basic production scheduling | |
| MEM18001C | Use hand tools | |
| MEM30017A | Use basic preventative maintenance techniques and tools | |
| MSFFM3021 | Set up, operate and maintain computer numerically controlled (CNC) sizing machines | |
| MSFFM3022 | Set up, operate and maintain computer numerically controlled (CNC) machining and processing centres | |
| MSFFM3023 | Produce and maintain cutting tools | |
| MSFFT4005 | Install and commission computer numerically controlled (CNC) software | |
| MSS402001A | Apply competitive manufacturing practices | |
| MSS402020A | Apply quick changeover procedures | |
| MSS402060A | Use planning software systems in operations | |
| MSS402081A | Contribute to the application of a proactive maintenance strategy | |
| MSS403051A | Mistake proof an operational process | |
| UEENEEH166A | Fault find microcontroller based hardware | |

Group D

Select up to **five (5)** units from Group D.

| Unit code | Unit title |
|-----------|--|
| MEM30031A | Operate computer-aided design (CAD) system to produce basic drawing elements |

| Unit code | Unit title |
|------------|--|
| MSFDN4003 | Produce patterns and templates |
| MSFFM2012 | Set up, operate and maintain pressure and clamping machines |
| MSFFM3007 | Prepare and apply decorative surfaces for furniture |
| MSFFM3011 | Measure and draw site layout for manufactured furniture products |
| MSFFT4007 | Sample, inspect and test products to specifications |
| MSS402010A | Manage the impact of change on own work |
| MSS402021A | Apply Just in Time procedures |
| MSS402051A | Apply quality standards |
| TLID2003 | Handle dangerous goods/hazardous substances |

Group E

Up to **five (5)** relevant units may be chosen from units not already selected from Groups A, B, C, or D or units available in this Training Package or other endorsed Training Packages and accredited courses. Those units must be aligned at Certificate II level (maximum 1 unit), Certificate III level (maximum 5 units) or Certificate IV level (maximum 1 unit).

Units selected from other Training Packages and accredited courses via Group E must be relevant to the qualification outcome and not duplicate units available within this qualification.

Qualification Mapping Information

Supersedes and is based on LMF30502 Certificate III in Furniture Making (Wood Machining). Outcomes are not equivalent.

Links

MSA Training Package Companion Volumes -
http://companion_volumes.vetnet.education.gov.au/Pages/TrainingPackage.aspx?pid=35