



**Australian Government**

**Department of Education, Employment and Workplace Relations**

# **LMF30502 Certificate III in Furniture Making (Wood Machining)**

**Revision Number: 1**

## **LMF30502 Certificate III in Furniture Making (Wood Machining)**

### **Modification History**

Not applicable.

## Description

This qualification describes the skills and knowledge required to perform wood machining for the manufacture of furniture utilising a range of specialist machinery and including preparing and working from drawings and cutting lists.

### Job roles/employment outcomes

The LMF30502 Certificate III in Furniture Making (Wood Machining) reflects vocational outcomes for those performing wood machining for furniture making processes in a defined range of skilled operations, usually within a range of broader related activities involving known routines, methods and procedures, where some discretion and judgement is required in the selection of equipment, services or contingency measures and within known time constraints.

### Application

This qualification is typically used to develop skills and a breadth, depth and complexity of knowledge in wood machining and furniture making techniques and would cover selecting, adapting and transferring this skill and knowledge to new environments and providing technical advice and some leadership in resolution of specific problems. Application would be across a range of roles in a variety of contexts with some complexity in the extent and choice of options available and may involve some responsibility for others. Participation in teams including group or team coordination may be required.

### Pathways into the qualification

This qualification may be accessed by direct entry. Credit can be granted towards this qualification by those who have completed LMF20309 Certificate II in Furniture Making or achieved equivalent industry experience.

### Pathways from the qualification

Further training pathways from this qualification may include LMF40202 Certificate IV in Furnishing Technology or similar qualifications plus relevant supervisory, management or competitive manufacturing qualifications.

### Licensing considerations

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.

## Pathways Information

Not applicable.

## Licensing/Regulatory Information

Not applicable.

## **Entry Requirements**

Not applicable.

## Employability Skills Summary

<b>EMPLOYABILITY SKILLS QUALIFICATION SUMMARY</b>	
<b>Employability Skill</b>	<b>Industry/enterprise requirements for this qualification include:</b>
Communication	<ul style="list-style-type: none"> <li>• complete written documents, forms and timesheets</li> <li>• use communication technologies efficiently</li> <li>• communicate production abnormalities</li> <li>• demonstrate effective and appropriate communication and interpersonal skills when dealing with people from a range of backgrounds</li> <li>• read, interpret and communicate production schedules</li> <li>• communicate with all team members</li> </ul>
Teamwork	<ul style="list-style-type: none"> <li>• work cooperatively with people of different ages, gender, race or religion</li> <li>• liaise with and provide support to other team members</li> <li>• work as part of a team</li> <li>• keep team members informed of changes to work practices</li> <li>• identify team performance required to meet customer needs</li> <li>• provide leadership to others in the team</li> <li>• encourage the sharing of information between team members</li> <li>• plan and support team activities</li> </ul>
Problem-solving	<ul style="list-style-type: none"> <li>• identify and report problems and make contributions to their solution</li> <li>• investigate problem causes</li> <li>• implement changes</li> <li>• examine tools for damage, missing components or other defects</li> <li>• identify and promptly address problems or issues</li> <li>• assess quality of work pieces</li> <li>• determine effective work practices</li> <li>• provide problem solving support to team members</li> <li>• problem solve machine operational and maintenance requirements</li> </ul>
Initiative and enterprise	<ul style="list-style-type: none"> <li>• seek and provide feedback on procedures</li> <li>• gather and analyse information</li> <li>• record information on the quality and other indicators of production performance</li> <li>• adjust and implement production schedules changes</li> <li>• provide leadership</li> <li>• identify and implement process improvements</li> <li>• coordinate work activities and manufacturing processes</li> </ul>

<b>EMPLOYABILITY SKILLS QUALIFICATION SUMMARY</b>	
	<ul style="list-style-type: none"> <li>• monitor workplace performance</li> <li>• use analytical and decision making skills</li> </ul>
Planning and organising	<ul style="list-style-type: none"> <li>• identify hazards and implement appropriate hazard control measures</li> <li>• organise self and others to meet production schedules</li> <li>• identify and rectify stock shortages in advance</li> <li>• sequence work to maximise safety and productivity</li> <li>• select and use appropriate tools and equipment</li> <li>• determine materials, quality and production requirements</li> <li>• apply time management skills to ensure work flow</li> </ul>
Self-management	<ul style="list-style-type: none"> <li>• interpret and apply relevant acts and regulations</li> <li>• keep the work area clean and tidy at all times</li> <li>• conduct regular housekeeping activities</li> <li>• understand own work activities</li> <li>• manage own time and establish own work schedule</li> <li>• develop and implement workplace procedures and instructions</li> <li>• locate, interpret and apply information relevant to own work</li> <li>• monitor and evaluate own work quality</li> <li>• accept responsibility for quality of work</li> </ul>
Learning	<ul style="list-style-type: none"> <li>• develop learning activities as appropriate</li> <li>• assess competencies in meeting job requirements</li> <li>• identify own training needs and seek skill development if required</li> <li>• listen to feedback from others</li> <li>• identify sources of information to expand knowledge and understanding</li> <li>• identify and address skill development needs of others in the team</li> </ul>
Technology	<ul style="list-style-type: none"> <li>• use software applications effectively</li> <li>• properly start up, operate and shut down computers</li> <li>• work with technology safely and according to workplace standards</li> <li>• establish procedures</li> <li>• carry out pre-operational checks on equipment and machines</li> <li>• operate equipment and machines safely, efficiently and to productivity requirements</li> <li>• monitor and adjust machine functions</li> <li>• perform machine maintenance as determined by workplace procedures</li> <li>• clean and check equipment and machines</li> </ul>

## Packaging Rules

### Packaging Rules

To be awarded the LMF30502 Certificate III in Furniture Making (Wood Machining), competency must be achieved in **twenty-seven (27)** units of competency.

- **seventeen (17)** core units of competency
- **ten (10)** elective units of competency.

Note: Where prerequisite units apply, these have been listed, and must be considered in the total number of units.

### CORE UNITS

Complete all **seventeen (17)** units from this list.

Unit code	Unit title	Prerequisites
LMFFF2004B	Prepare surfaces for finishing	
LMFFM2001B	Use furniture making sector hand and power tools	
LMFFM2002B	Assemble furnishing components	
LMFFM2006B	Hand make timber joints	
LMFFM2010B	Set up, operate and maintain basic static machines	
LMFFM2011B	Apply manufactured board conversion techniques	
LMFFM3011B	Produce manual and computer-aided production drawings	

Unit code	Unit title	Prerequisites
LMFFM3012B	Prepare cutting list from plans and job specifications	
LMFFM3033B	Construct jigs and fixtures	
LMFGN3001B	Read and interpret work documents	
LMFGN3002B	Estimate and cost job	
MSAENV272B	Participate in environmentally sustainable work practices	
MSAPMOHS200A	Work safely	
MSAPMOPS101A	Make measurements	
MSAPMSUP102A	Communicate in the workplace	
MSAPMSUP106A	Work in a team	
TLID307E	Handle dangerous goods/hazardous substances	

## ELECTIVE UNITS

Select **ten (10)** units from Groups A, B or C as specified below.

### Group A

Select a minimum of **four (4)** units from Group A.

Unit code	Unit title	Prerequisites
LMFFM3020B	Set up, operate and maintain sawing machines	



Unit code	Unit title	Prerequisites
LMFFM3021B	Set up, operate and maintain drilling machines	
LMFFM3022B	Set up, operate and maintain joining machines	
LMFFM3023B	Set up, operate and maintain planing and finishing machines	
LMFFM3025B	Set up, operate and maintain routing and shaping machines	

### Group B

Select up to **six (6)** units from Groups B and C

Unit code	Unit title	Prerequisites
LMFFM2003B	Select and apply hardware	
LMFFM2004B	Apply sheet laminates by hand	
LMFFM2005B	Join solid timber	
LMFFM2007B	Follow plans to assemble production furniture	
LMFFM2008B	Bend and form cane	
LMFFM2009B	Construct cane furniture	
LMFFM2012B	Set up, operate and maintain	

Unit code	Unit title	Prerequisites
	pressure and clamping machines	
LMFFM3001B	Construct chair and couch frames	
LMFFM3002B	Construct furniture using leg and rail method	
LMFFM3003B	Produce angled and curved furniture using manufactured board	
LMFFM3004B	Produce angled and curved furniture using solid timber	
LMFFM3005B	Fabricate custom furniture	
LMFFM3006B	Install furnishing products	
LMFFM3007B	Prepare and apply decorative surfaces for furniture	
LMFFM3010B	Select timbers for furniture production	
LMFFM3013B	Measure and draw site layout for manufactured furniture products	
LMFFM3024B	Set up, operate and maintain multi-head planing and moulding	

Unit code	Unit title	Prerequisites
	machines	
LMFFM3026B	Set up, operate and maintain mechanical wood turning lathes	
LMFFM3027B	Set up, operate and maintain automated edge banding machines	
LMFFM3028B	Fabricate synthetic solid surface products	
LMFFM3030B	Set up, operate and maintain CNC sizing machines	
LMFFM3031B	Set up, operate and maintain CNC machining and processing centres	
LMFFM3032B	Produce and maintain cutting tools	

### Group C

Up to **five (5)** relevant units may be chosen from units not already selected from Group A and B, 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 6 units) or Certificate IV level (maximum 1 unit).

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

If Competitive Manufacturing units are chosen (identified as MSACM in the code), these should only be selected on the basis of work requirements.