



Australian Government

Department of Education, Employment and Workplace Relations

LMF40508 Certificate IV in Furniture Design and Technology

Revision Number: 1

LMF40508 Certificate IV in Furniture Design and Technology

Modification History

Not applicable.

Description

This qualification describes the skills and knowledge required to perform design of furniture and the application of the design into a finished furniture product. This qualification is streamlined to reflect two primary occupational outcomes in the areas of:

1. Fine furniture making - with a focus on skills required to design and produce individual fine furniture for display or custom production.
2. Furniture design - with a focus on skills required to design furniture for volume production.

Job roles/employment outcomes

The LMF40508 Certificate IV in Furniture Design and Technology reflects vocational outcomes in fine furniture making or furniture design with a broad range of skilled applications including requirements to evaluate and analyse current practices, develop new criteria and procedures for performing current practices, and provision of some leadership and guidance to others in the application and planning of the skills

Application

This qualification is typically used to develop skills and a breadth, depth and complexity of knowledge in a range of furniture making and design. The work would cover a broad range of varied activities or applications in a wide variety of contexts, most of which are complex and non-routine. Leadership and guidance would be involved when organising self and others as well as contributing to technical solutions of a non-routine or contingency nature.

Pathways into the qualification

This qualification may be accessed by direct entry. Credit can be granted towards this qualification by those who have completed LMF30302 Certificate III in Furniture Making or other relevant qualifications or achieved equivalent industry experience.

Pathways from the qualification

Further training pathways from this qualification may include LMF50202 Diploma of Furnishing Technology, LMF50508 Diploma of Furniture Design and Technology and 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

EMPLOYABILITY SKILLS QUALIFICATION SUMMARY

The following table contains a summary of the employability skills as identified by the furniture design and technology industries for this qualification. This Table should be interpreted in conjunction with the detailed requirements of each unit of competency packaged in this qualification. The outcomes described here are broad industry requirements that reflect skill requirements for this level.

Employability Skill	Industry/enterprise requirements for this qualification include:
Communication	• communicate effectively and efficiently with colleagues, suppliers and clients • interpret correspondence, verbal and written project briefs • interpret work instructions, technical and conceptual information • communicate research findings and creative ideas • visually communicate creative concepts and direction to colleagues, suppliers and clients • produce drawings to communicate the concept • communicate verbally and in writing on technical issues • confirm a brief with client • complete standard documentation • undertake measurements and calculations • undertake interactive workplace communication
Teamwork	• share or discuss concepts and ideas with others • work with a diverse range of cultures, trades and backgrounds • liaise and work with suppliers • collaborate with others • work with trades people to achieve successful project outcomes • work independently or as a team member • demonstrate and encourage others in working cooperatively with people of different ages, gender, race or religion • identify role of others in the design and manufacture processes • undertake appropriate and effective communication with others in the design or manufacture process
Problem solving	• analyse research findings • recognise and address quality issues and problems relating to furniture design • solve problems in relation to the realisation of design within the client's budget • solve problems in relation to the realisation of design • seek outcomes that are environmentally, economically and socially sustainable

EMPLOYABILITY SKILLS QUALIFICATION SUMMARY

	• assess and evaluate skill requirements of self and others to perform tasks • apply knowledge of materials to solve problems • assess quality of materials before using in furniture or design
Initiative and enterprise	• create or realise furniture designs • explore design and manufacture options • manage changes to brief or solution • identify non-conformances to standards and take appropriate action • rectify problems promptly and appropriately
Planning and organising	• prepare for undertaking a furniture design project • organise materials and equipment • prepare effective and clear specifications on time and to agreed industry standards • collect, analyse and organise information to arrange projects professionally and on time
Self management	• evaluate and monitor own work and the work of others • manage own time effectively • establish own work schedules and take responsibility for the deliverables associated with individual projects • manage own work • monitor information in work area • keep the work area clean and tidy at all times • locate, interpret and apply relevant information • monitor own work against quality standards • understand own work activities and responsibilities • manage work load priorities
Learning	• conduct ongoing professional research in furniture design and technology knowledge • manage own learning and professional development activities • accept and respond to feedback, and use feedback as an opportunity to improve professional knowledge and skills • manage own self-directed learning to continually keep up to date with available products, services and current trends • identify shortfalls in knowledge and undertake research or training to fill gaps • maintain a knowledge of industry standards • assess competencies in meeting job requirements • ask questions to expand own knowledge
Technology	• observe OHS principles when using technology • research technological developments relevant to work

EMPLOYABILITY SKILLS QUALIFICATION SUMMARY

	work with technology safely and according to workplace standards
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Packaging Rules

Packaging Rules

To be awarded the LMF40508 Certificate IV in Furniture Design and Technology, competency must be achieved in **nineteen (19)** units of competency.

- six (6)** core units of competency
- thirteen (13)** 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 **six (6)** units from this list.

Unit code	Unit title	Prerequisites
BSBDES401A	Generate design solutions	
LMFFDT4007A	Establish the design brief	
LMFFDT4012A	Produce ideation drawings	
LMFFDT4014A	Research and select furniture materials and technology	
LMFFDT4015A	Research furniture styles and movements	
MSAENV272B	Participate in environmentally sustainable work practices	

ELECTIVE UNITS

Select **thirteen (13)** units from Groups A, B, C and D as specified below.

Group A

Select **one (1)** unit from Group A

Unit code	Unit title	Prerequisites
Stream 1: Fine Furniture Making		
LMFFDT4006A	Establish and maintain a safe furniture making work environment	
Stream 2: Furniture Design		
LMFFDT4008A	Determine occupational health and safety implications of designs	

Group B

Select a minimum of **eight (8)** units from Groups B **OR** C with at least **five (5)** units in each Group being coded LMF*****

Unit code	Unit title	Prerequisites
BSBDES301A	Explore the use of colour	
BSBPMG510A	Manage projects	
BSBSMB403A	Market the small business	
BSBSMB404A	Undertake small business planning	
CUFDIG303A	Produce and prepare photo	

Unit code	Unit title	Prerequisites
	images	

Unit code	Unit title	Prerequisites
CUVCOR09B	Select and apply drawing techniques and media to represent and communicate the concept	
CUVCRS03B	Produce computer-aided drawings	
CUVCRS04B	Produce technical drawings	
LMFFDT4001A	Apply finishing techniques to custom furniture	
LMFFDT4002A	Assemble custom furniture	
LMFFDT4005A	Construct and evaluate furniture prototypes and samples	
LMFFDT4009A	Prepare and present furniture design information	
LMFFDT4010A	Produce and evaluate developmental furniture models to scale	
LMFFDT4011A	Set up, operate and maintain basic static woodworking machines	
LMFFDT4016A	Select, use and maintain hand tools for the	

Unit code	Unit title	Prerequisites
	creation of custom furniture	

Unit code	Unit title	Prerequisites
LMFFDT4017A	Set up and operate a wood turning lathe to produce off-centre work	
LMFFDT4018A	Produce templates and jigs for custom made furniture	
LMFFM4005A	Hand carve wood to custom design	
LMFFM4006A	Construct joints for custom furniture	
LMFFM4007A	Produce curved and shaped components for custom furniture	
LMFFM4008A	Produce timber veneered components for custom furniture	
LMFFT4010B	Identify and calculate production costs	
LMFFT4011B	Purchase materials and consumables	

Group C

Select up to **four (4)** units from Group C

Unit code	Unit title	Prerequisites
BSBCRT401A	Articulate, present and debate ideas	

Unit code	Unit title	Prerequisites
BSBCRT402A	Collaborate in a creative process	
BSBCRT403A	Explore the history and social impact of creativity	
BSBCRT501A	Originate and develop concepts	
BSBDES301A	Explore the use of colour	
BSBDES303A	Explore and apply the creative design process to 3D forms	
BSBDES305A	Source and apply information on the history and theory of design	
BSBDES403A	Develop and extend design skills and practice	
BSBPMG510A	Manage projects	
BSBSMB403A	Market the small business	
BSBSMB404A	Undertake small business planning	
BSBSMB407A	Manage a small team	
CUFDIG303A	Produce and prepare photo images	
CUFDIG304A	Create visual design components	
CUVCOR09B	Select and apply drawing techniques and media to represent and communicate the concept	
CUVCRS03B	Produce computer-aided drawings	
CUVCRS04B	Produce technical drawings	

Unit code	Unit title	Prerequisites
LMFFDT4003A	Assess and record the lifecycle of a product	
LMFFDT4004A	Assess environmental impact of a design	
LMFFDT4005A	Construct and evaluate furniture prototypes and samples	
LMFFDT4009A	Prepare and present furniture design information	
LMFFDT4013A	Research and select furniture finishes	
LMFFT4010B	Identify and calculate production costs	
MEM15001B	Perform basic statistical quality control	
MEM16006B	Organise and communicate information	
MEM16007B	Work with others in a manufacturing, engineering or related environment	
MEM16008B	Interact with computing technology	
MEM16013A	Operate in a self-directed team	MEM16007B
MEM30001B	Use computer aided drafting systems to produce basic engineering drawings	MEM16006B MEM16008A
MEM30004A	Use CAD to create and display 3D models	MEM16008B
MEM30024A	Participate in quality assurance techniques	MEM15001B

Unit code	Unit title	Prerequisites
MSACMT230A	Apply cost factors to work practices	
MSACMT430A	Improve cost factors in work practices	
MSAENV472B	Implement and monitor environmentally sustainable work practices	

Group D

Up to **four (4)** relevant units can be chosen from units not already selected from Group A, B or C, or units available in this Training Package, other endorsed Training Packages and accredited courses. Those units must be aligned at Certificate III level (maximum 2 units), Certificate IV level (maximum 4 units) or Diploma level (maximum 2 units). Note that if any units chosen from Group C have prerequisite requirements, these must be counted in the total number of units.

Units selected from other Training Packages and accredited courses via Group D 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.