



**Australian Government**

# **MSF40213 Certificate IV in Furniture Design and Technology**

**Release 1**

# **MSF40213 Certificate IV in Furniture Design and Technology**

## **Modification History**

Release 1 - New qualification

## **Qualification 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 three complementary 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.
3. Furniture production - with a focus on purchasing, quality assurance and specialist techniques

This is a senior qualification with scope for entry from relevant trade and non-trade backgrounds.

This qualification is typically used to develop skills and a breadth, depth and complexity of knowledge in a range of furniture making, design and production techniques. 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.

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 MSF40213 Certificate IV in Furniture Design and Technology, competency must be achieved in **nineteen (19)** units of competency.

- **five (5)** core units of competency
- **fourteen (14)** 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 **five (5)** units from this list.

| Unit code  | Unit title  |
|------------|---|
| MEM16006A  | Organise and communicate information                                    |
| MEM16007A  | Work with others in a manufacturing, engineering or related environment |
| MSAENV272B | Participate in environmentally sustainable work practices               |
| MSFFDT4011 | Research and select furniture materials and technology                  |
| MSFFDT4012 | Research furniture styles and movements                                 |

### ELECTIVE UNITS

Select **fourteen (14)** units from Groups A to E as specified below.

#### Group A

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

| Unit code | Unit title |
|-----------|------------|
|-----------|------------|

#### Stream 1: Fine Furniture Making and Furniture Production

|            |  |
|------------|--|
| BSBOHS404B | Contribute to the implementation of strategies to control OHS risk |
|------------|--|

#### Stream 2: Furniture Design

|            |  |
|------------|--|
| MSFFDT4006 | Determine work health and safety (WHS) implications of designs |
|------------|--|

Select a minimum of **eight (8)** units from Group B, C or D with at least **five (5)** units being coded MSF\*\*\*\*\*

**Group B – Fine Furniture Making**

| <b>Unit code</b> | <b>Unit title</b>  |
|------------------|--|
| BSBDES301A       | Explore the use of colour  |
| BSBPMG522A       | Undertake project work   |
| BSBSMB403A       | Market the small business  |
| BSBSMB404A       | Undertake small business planning  |
| CUFDIG303A       | Produce and prepare photo images   |
| CUVACD303A       | Produce technical drawings   |
| MSFDN4003        | Produce patterns and templates   |
| MSFFDT4001       | Apply finishing techniques to custom furniture                                       |
| MSFFDT4002       | Assemble custom furniture  |
| MSFFDT4005       | Construct and evaluate furniture prototypes and samples                              |
| MSFFDT4008       | Produce and evaluate developmental furniture models to scale                         |
| MSFFDT4009       | Set up, operate and maintain basic static woodworking machines for furniture designs |
| MSFFDT4013       | Select, use and maintain hand tools for the creation of custom furniture             |
| MSFFDT4014       | Set up and operate a wood-turning lathe to produce off-centre work                   |
| MSFFDT4015       | Produce templates and jigs for custom-made furniture                                 |
| MSFFM4001        | Hand carve wood to custom design   |
| MSFFM4002        | Construct joints for custom furniture  |
| MSFFM4003        | Produce curved and shaped components for custom furniture                            |
| MSFFM4004        | Produce timber veneered components for custom furniture                              |
| MSFFT4010        | Identify and calculate production costs  |

**Group C – Furniture Design**

| <b>Unit code</b> | <b>Unit title</b> | <b>Prerequisites</b> |
|------------------|-------------------|----------------------|
|------------------|-------------------|----------------------|

|            |  |   |
|------------|--|---|
| BSBCRT401A | Articulate, present and debate ideas   |   |
| BSBCRT402A | Collaborate in a creative process  |   |
| BSBCRT403A | Explore the history and social impact of creativity                          |   |
| BSBCRT501A | Originate and develop concepts   |   |
| BSBDES303A | Explore and apply the creative design process to 3D forms                    |   |
| BSBDES305A | Source and apply information on the history and theory of design             |   |
| BSBDES401A | Generate design solutions  |   |
| BSBDES403A | Develop and extend design skills and practice                                |   |
| BSBDES502A | Establish, negotiate and refine a design brief                               |   |
| BSBSMB407A | Manage a small team  |   |
| CUFDIG304A | Create visual design components  |   |
| CULMS010B  | Contribute to the preservation of cultural material                          |   |
| CUVACD302A | Produce computer-aided drawings  |   |
| MEM15001B  | Perform basic statistical quality control                                    |   |
| MEM16006A  | Organise and communicate information   |   |
| MEM16007A  | Work with others in a manufacturing, engineering or related environment      |   |
| MEM16008A  | Interact with computing technology   |   |
| MEM16013A  | Operate in a self-directed team  | * |
| MEM30024A  | Participate in quality assurance techniques                                  | * |
| MEM30031A  | Operate computer-aided design (CAD) system to produce basic drawing elements |   |
| MEM30033A  | Use computer-aided design (CAD) to create and display 3-D models             | * |
| MSFDN4001  | Produce drawings from design concepts  |   |
| MSFFDT4003 | Assess and record the lifecycle of a product                                 |   |

|            |   |
|------------|---|
| MSFFDT4004 | Assess environmental impact of a design                       |
| MSFFDT4007 | Prepare and present furniture design information              |
| MSFFDT4010 | Research and select furniture finishes                        |
| MSFFT4009  | Match furnishing style and materials to customer requirements |
| MSS402030A | Apply cost factors to work practices                          |
| MSS403030A | Improve cost factors in work practices                        |

### **Group D – Furnishing Technology**

| <b>Unit code</b> | <b>Unit title</b>   |
|------------------|---|
| MSAENV472B       | Implement and monitor environmentally sustainable work practices      |
| MSFAH4001        | Advise on security technology, hardware and services                  |
| MSFAH4002        | Prepare door hardware schedules                                       |
| MSFDN4002        | Produce line and component production drawings                        |
| MSFDN4004        | Design, construct and test jigs                                       |
| MSFDN4005        | Work within a furniture design team                                   |
| MSFFT4001        | Coordinate on-site installation of furnishing products                |
| MSFFT4002        | Customise stock lines   |
| MSFFT4003        | Organise production processes   |
| MSFFT4004        | Establish and monitor production inventory requirements               |
| MSFFT4005        | Install and commission computer numerically controlled (CNC) software |
| MSFFT4006        | Construct prototypes and samples                                      |
| MSFFT4007        | Sample, inspect and test products to specifications                   |
| MSFFT4008        | Interpret and use workplace information                               |
| MSFFT4011        | Purchase materials and consumables                                    |
| MSFFT4012        | Prepare a tender submission   |

MSFPPF4001                      Design and construct ornamental frames

MSFPPF4002                      Determine and apply gilding techniques

### **Group E**

Up to **five (5)** relevant units can be chosen from other units not already selected from Groups B, C or D, or units available in this Training Package, other endorsed Training Packages and accredited courses. Those units must be aligned at Certificate III level (maximum 1 unit), Certificate IV level (maximum 5 units) or Diploma 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 LMF40508 Certificate IV in Furniture Design and Technology and LMF40202 Certificate IV in Furnishing Technology. Outcomes are not equivalent.

## **Links**

MSA Training Package Companion Volumes - <http://mskills.com.au/training-packages/info/>