



**Australian Government**

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

# **LMF30611 Certificate III in Glass and Glazing**

**Release: 2**

## **LMF30611 Certificate III in Glass and Glazing**

### **Modification History**

Core unit requirements changed from 14 to 12 units; electives changed to 11 units; one new glass and glazing unit is in the core and another an elective; addition of three MEM units to electives; electives grouped under three new headings; Glass Processing, Glazing and Decorative Architectural Glass plus a general elective bank; addition of stained glass and leadlighting elective units and minor content revisions to other glass and glazing units. One less unit required for completion, packaging more flexible'. Technical outcomes considered equivalent.

Minor formatting change.

## Description

This qualification describes the skills and knowledge required to perform a range of glass and glazing job roles, including safely manufacturing, processing, moving and installing various types of glass and handling glazing materials and components.

### Job roles/employment outcomes

The LMF30611 Certificate III in Glass and Glazing reflects vocational outcomes for those performing glass processing, glazing or architectural glass functions in residential and commercial operations and could include manufacturing, processing, installation and stained glass and leadlighting design. Job roles would be 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 a full range of glass and glazing 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. Applications 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 Information

### Pathways into the qualification

This qualification may be accessed by direct entry. Credit can be granted towards this qualification by those who have completed LMF20411 Certificate II in Glass and Glazing or achieved equivalent industry experience.

### Pathways from the qualification

Further training pathways from this qualification may include Furnishing Certificate IV or Diploma qualifications and relevant supervisory, management or competitive manufacturing qualifications.

### Additional qualification advice

Specialisation is possible in this qualification depending on the electives chosen. A specialisation can be identified on the testamur where a minimum of six (6) elective units of competency are achieved in one of the three elective groups and units chosen must include those marked with '#' in each specialist group:

- Group B - Glass Processing
- Group C - Glazing
- Group C - Architectural Stained Glass

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

Certificate III in Glass and Glazing

(specialising in Processing/Glazing/Architectural Stained Glass)

## **Licensing/Regulatory Information**

Depending on the jurisdiction, licensing or regulatory requirements may apply to the use of some units in this qualification. Licensing of glazing work applies in Queensland, NSW and South Australia. Local regulations should be checked for details.

## **Entry Requirements**

Not applicable.

## Employability Skills Summary

Employability Skill	Industry/enterprise requirements for this qualification include:
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 schedule changes</li> <li>• Provide leadership</li> <li>• Identify and implement process improvements</li> </ul>

	<ul style="list-style-type: none"> <li>• Coordinate work activities and manufacturing processes</li> <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 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> </ul>

	• Clean and check equipment and machines
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## Packaging Rules

To be awarded the LMF30611 Certificate III in Glass and Glazing, competency must be achieved in **twenty three (23)** units of competency:

- **eleven (11)** core units of competency
- **twelve (12)** 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 of competency

- Complete all of the following **eleven (11)** units of competency.

Unit code	Unit title
HLTFA301B	Apply First Aid
LMFGG2001C	Use glass and glazing sector hand and power tools
LMFGG2003C	Operate glass freefall rack and table
LMFGG2004C	Process thin glass by hand
LMFGG2005C	Move glass sheets by hand
LMFGG2007C	Process glass by basic machines
LMFGG2011A	Use, handle and store glass and glazing products and consumables
MSAENV272B	Participate in environmentally sustainable work practices
MSAPMOPS101A	Make measurements
MSAPMSUP102A	Communicate in the workplace
MSAPMSUP106A	Work in a team

### Elective units of competency

- Complete **twelve (12)** units of competency, made up of:
  - a maximum of one (1) unit from Group A
  - a minimum of six (6) units from Groups B, C or D (at least six (6) from one group to

achieve that specialisation and chosen units must include those marked with ‘#’ in each specialist group)

- the remaining units, to a maximum of five (5) units, may be selected from:
  - units not previously selected from Groups B, D, or D
  - a maximum of three (3) units from Group E
  - a maximum of four (4) relevant units from this Training Package, other endorsed Training Packages and accredited courses, where those units are available at Certificate II level (maximum 1 unit), Certificate III level (maximum 4 units) or Certificate IV level (maximum 1 unit).

Units selected from other Training Packages and accredited courses 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.

### **Group A: OHS electives**

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Unit code	Unit title	Prerequisites
CPCCOHS2001A	Apply OHS requirements, policies and procedures in the construction industry	
MSAPMOHS200A	Work safely	

### Group B: Glass Processing

Unit code	Unit title		Prerequisites
LMFFM3033B	Construct jigs and fixtures		
LMFGG3001C	Store and handle glass		
LMFGG3003C	Move block/bulk glass sheet by mechanical means		
LMFGG3004C	Process thick glass	#	
LMFGG3005C	Process glass by semi-automatic and automatic machines	#	
LMFGG3006C	Apply and handle films and coated glass		
LMFGG3007C	Form glass		
LMFGG3008C	Apply patterns and designs to glass		
LMFGG3009C	Set up and operate glass laminating equipment		
LMFGG3010C	Set up and operate glass toughening equipment		
LMFGG3011C	Set up and operate glass silvering equipment		
LMFGG3012C	Set up and operate insulated glass unit manufacturing equipment		
MEM09002B	Interpret technical drawing		
MEM09009C	Create 2D drawings using computer aided design system		MEM16008A MEM09002B

MEM16008A	Interact with computing technology		
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### Group C: Glazing

Unit code	Unit title		Prerequisites
LMFGG2008C	Glaze/re-glaze residential windows and doors	#	
LMFGG2009C	Fabricate and assemble metal frames		
LMFGG2010C	Fabricate and install insect and security screens		
LMFGG3002C	Assess glass and glazing requirements	#	
LMFGG3015C	Fabricate and install shower screens and wardrobe doors		
LMFGG3016C	Fabricate and install residential windows and doors		
LMFGG3017C	Fabricate and install commercial glazing		
LMFGG3018C	Prepare and install architectural engineered glazing		
LMFGG3019C	Conduct commercial and structural re-glazing		
LMFGG3020A	Use static machines for aluminium and uPVC fabrication		
LMFGG3021A	Prepare and install mirrors and glass splashbacks		

### Group D: Architectural Stained Glass

Unit code	Unit title		Prerequisites
LMFGG3013C	Construct and repair leadlight panels		

LMFSL2001B	Assemble leadlight and stained glass components	#	
LMFSL3001B	Apply product and material knowledge to leadlight and stained glass operations		
LMFSL3004B	Protect stained glass and leadlighting		
LMFSL3005B	Fabricate and install residential leadlight and stained glass windows and doors		
LMFSL3006B	Prepare and install architectural engineered leadlight and stained glass		
LMFSL3007A	Paint and fire glass	#	

### Group E: Other elective units

Unit code	Unit title	Prerequisites
CPCCCM2001A	Read and interpret plans and specifications	
CPCCCM2006A	Apply basic levelling procedures	CPCCOHS2001A
CPCCCM2008A	Erect and dismantle restricted height scaffolding	CPCCOHS2001A
CPCCCM2010A	Work safely at heights	CPCCOHS2001A
CPCCCM3001B	Operate elevated work platforms	CPCCCM1006A CPCCOHS2001A
CPCCOHS1001A	Work safely in the construction industry	
CUVCOR07B	Use drawing techniques to represent the object or idea	
CUVCOR08B	Produce drawings to represent and communicate the concept	
CUVVSP01B	Produce calligraphy	
CUVVSP14B	Apply techniques to produce drawings	
CUVVSP15B	Produce drawings	

LMFFM3011B	Produce manual and computer-aided production drawings	
LMFGN3001B	Read and interpret work documents	
LMFGN3002B	Estimate and cost job	
TLID307D	Handle dangerous goods/hazardous substances	

## Custom Content Section

Not applicable.