



Australian Government

MSFGG3004 Process thick glass

Release: 1

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Modification History

Release 1 - New unit of competency

Application

This unit of competency covers cutting, shaping, drilling and edging annealed and laminated glass, which is 12 mm thick and over. It involves the planning, preparation and processing of thick glass sheet.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Competency Field

Unit Sector

Glass and Glazing

Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

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| 1 Identify work requirements | 1.1 Work requirements for processing thick glass, including materials, types of cuts, shapes and edges, processes and quantities required, are identified from work instructions or job order in accordance with workplace procedures |
| | 1.2 Work health and safety (WHS) requirements, including personal protective equipment, are observed throughout the work |
| | 1.3 Tools, equipment and materials are selected and checked prior to use to ensure they are appropriate for the work, serviceable and in a safe condition |
| | 1.4 Cutting list and quality standards are determined and procedures identified in accordance with workplace requirements and industry standards |

- 1.5 Glass to be cut, shaped, drilled or edged is selected using information from the work order, including type of glass, thickness, colour and dimensions
 - 1.6 Machines, equipment and settings required to perform the work are identified
- 2 Prepare for work
 - 2.1 Sequence of work is planned to ensure processing is conducted in a logical order
 - 2.2 Suitable cutting, shaping, drilling, edging and lubrication methods are selected
 - 2.3 Glass processing table is selected and work surface is cleared of debris and dust
 - 2.4 Work area is cleared of obstructions and potential hazards with cullet bins located close to work area
 - 2.5 Glass is checked for imperfections and damage prior to handling
 - 2.6 Glass to be processed is located in the work area using correct manual handling procedures
 - 2.7 Glass is measured accurately to minimise waste and within specified tolerances according to enterprise standards
 - 2.8 Components and controls of machines, including emergency stops and guards, are identified and tested for working order
- 3 Process glass
 - 3.1 Tools and equipment are operated and monitored in accordance with manufacturer instructions and workplace procedures to ensure correct product quality and output
 - 3.2 Glass is processed to required standard in accordance with job order, work instructions and procedures, including the performance of routine lubrication and adjustments of machines/equipment
 - 3.3 Problems occurring during work operations are identified and reported to appropriate persons, and any authorised changes in working procedures followed
 - 3.4 Completed product is inspected for quality of work and repaired, reprocessed or discarded in accordance with workplace procedures

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| 4 | Complete work | 4.1 | Processed glass is labelled and stored following workplace procedures ensuring there are no projections |
| | | 4.2 | Scraps and off-cuts are removed for disposal or recycling, as required |
| | | 4.3 | Work area is cleaned and rubbish disposed of, as appropriate |
| | | 4.4 | Tools, equipment and unused materials are removed and stored appropriately |
| | | 4.5 | Workplace documentation is completed, as required |

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency. Detail on appropriate performance levels for each furnishing unit of competency in reading, writing, oral communication and numeracy utilising the Australian Core Skills Framework (ACSF) are provided in the Furnishing Training Package Implementation Guide.

Range of Conditions

Specifies different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included. Range is restricted to essential operating conditions and any other variables essential to the work environment.

Thick glass includes:	• annealed sheet and laminated glass for residential and commercial windows and doors greater than 12 mm thick • structural glass
Materials include:	• table tops • shower screens
Glass processing includes:	• cutting • use of portable diamond saws • shaping • drilling and edging (edging may include arising)
Tools and equipment include:	• cutting tables • tungsten wheel glass cutters • speed cutters • circle cutters • portable diamond saws • L-squares and straight edges • tape measures • marking pens • chinagraph pencils • templates and lubricants
Drilling equipment includes:	• portable diamond drills • glass drilling machine
Edging tools include:	• edging stones and hand arrisers • upright belt • handheld belt machines
Glass processing tables include:	• air flotation tables • roller castor table or tilt table with air flotation or roller castors
Personal protective equipment includes:	• that prescribed under legislation, regulations and enterprise practices and procedures: • glass handling gloves • safety glasses • gauntlets • aprons • safety footwear

Workplace procedures include:

- workplace procedures relating to the use of tools and equipment and personal protective equipment required for the handling and processing of glass
- workplace instructions, including job sheets, cutting lists, plans, drawings and designs
- workplace procedures relating to reporting and communications
- manufacturer instructions for the use of equipment and materials
- quality standards and procedures

Unit Mapping Information

Supersedes and is not equivalent to LMFGG3004C Process thick glass.

Links

Companion Volume implementation guides are found in VETNet -
<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=0601ab95-583a-4e93-b2d4-cfb27b03ed73>