



Australian Government

MSFGG2014 Cut thin glass by hand

Release: 1

MSFGG2014 Cut thin glass by hand

Modification History

Release 1. Supersedes and is not equivalent to MSFGG2004 Process thin glass by hand.

Application

This unit describes the skills and knowledge required to cut, shape and apply finishing techniques to annealed glass up to 8 mm thick, and laminated glass up to 8.38 mm thick. This may include mirrors, and work may be for residential or commercial purposes.

This unit applies to glass processing workers and glaziers cutting glass in accordance with pre-determined work orders.

No licensing or certification requirements exist at the time of publication. Relevant legislation, industry standards and codes of practice within Australia must be applied.

Pre-requisite Unit

N/A

Unit Sector

Glass and Glazing

Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Identify work requirements	1.1 Read work instructions and identify cutting requirements 1.2 Identify and follow work health and safety requirements, using all required personal protective equipment 1.3 Select and check required tools, equipment and materials for suitability, serviceability and safety prior to use 1.4 Plan sequence of work to ensure processing is conducted in a logical order

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
2. Prepare for work	2.1 Select glass cutting table and clear work surface of debris and dust 2.2 Clear work area of obstructions and potential hazards with cullet bins located close to work area 2.3 Check glass for imperfections and damage prior to handling 2.4 Safely place glass to be cut in the required work area using correct manual handling procedures 2.5 Accurately measure glass to minimise waste in accordance with workplace standards 2.6 Set and test equipment and safety controls in accordance with workplace standards
3. Cut glass	3.1 Operate and monitor tools and equipment in accordance with manufacturer instructions and workplace procedures to achieve required cuts within specified tolerances 3.2 Make routine equipment, tool lubrication and adjustments in accordance with manufacturer instructions 3.3 Identify and report problems to appropriate persons, and follow any authorised changes in working procedures 3.4 Inspect completed product for compliance with quality and work order requirements, and repair, reprocess or discard in accordance with workplace procedures
4. Complete work	4.1 Label and store cut glass in accordance with workplace procedures ensuring there are no projections 4.2 Clean work area, safely dispose of rubbish and identify items for recycling in accordance with workplace procedures 4.3 Remove and store tools, equipment and unused materials in accordance with workplace procedures 4.4 Accurately complete required workplace documentation

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Unit Mapping Information

No equivalent unit.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0601ab95-583a-4e93-b2d4-cfb27b03ed73>

Assessment Requirements for MSFGG2014 Cut thin glass by hand

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Performance Evidence

There must be evidence the candidate has completed the tasks outlined in the elements and performance criteria of this unit, and:

- undertaken the following in accordance with all safety requirements and Australian Standard AS/NZS 4667:
- for annealed glass, up to 8mm in thickness and up to 1.0 m 2in size, cut all of the following both in a thickness up to 6mm and in a thickness 6mm or above:
 - freehand cuts using templates for simple shapes other than square
 - straight cuts by hand and speed cutter
 - truncated and radius corners
 - circles
 - fan holes
 - freehand pay holes
- for laminated glass, up to 8.38 mm in thickness and up to 1.0 m 2in size, cut all of the following at least once:
 - simple shapes other than a square
 - truncated corners
 - ovals
- made straight cuts in laminated glass up to 8.38mm by hand and speed cutter.
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Knowledge Evidence

There must be evidence the candidate has knowledge of:

- purpose and key provision of Australian Standard AS/NZS 4667 – all sections
- work flow requirements in relation to glass cutting
- mathematical procedures for estimation and measurement, including calculation of area and estimation of glass requirements
- thin glass:
 - qualities and characteristics, including hazards and handling requirements
 - workplace safety system requirements
 - work flow requirements
 - common work requirements, including:
 - cut types

- shaping
- holes
- edges
- how to create a template for cutting
- types, characteristics, safe use, maintenance and limitations of glass cutting tools and equipment, including:
 - cutters, including circle, speed, tungsten wheel
 - cutting tables
 - templates
- cutting and processing techniques, the types of problems that may occur and how to avoid and respond
- quality assurance
- workplace documentation requirements.
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Assessment Conditions

Skills must have been demonstrated in the workplace or in a simulated environment that reflects workplace conditions and contingencies. The following conditions must be met for this unit:

- use of suitable facilities, equipment and resources, including:
 - equipment, tools and materials required to complete tasks specified in the Performance Evidence
 - glass product to be cut
 - safety and personal protective equipment
 - work orders
 - workplace procedures.

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

Links

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