



Australian Government

MSFGG3031 Cut thick glass

Release: 1

MSFGG3031 Cut thick glass

Modification History

Release 1. Supersedes and is not equivalent to MSFGG3004 Process thick glass.

Application

This unit describes the skills and knowledge required create jobs and to program and operate automatic glass processing equipment for cutting, drilling, shaping and edging of glass.

This unit applies to glass processing workers.

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 serviceability and safety prior to use 1.4 Plan sequence of work to ensure cutting is conducted in a logical order
2. Prepare for cutting	2.1 Select glass cutting table and clear work surface of debris and dust 2.2 Clear work area of obstructions and potential hazards and locate cullet bins close to work area 2.3 Check glass for imperfections and damage prior to handling 2.4 Relocate glass to be cut to the work area using correct manual handling procedures

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	2.5 Accurately measure glass to minimise waste within specified tolerances in accordance with workplace standards 2.6 Set and test equipment settings and safety controls in accordance with workplace standards
3. Cut glass	3.1 Operate and monitor tools and 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 processed 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 MSFGG3031 Cut thick glass

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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 and AS/NZS 4667 requirements:
 - cut at least 3 different thicknesses of annealed glass (between 8mm and 25mm thick)
 - cut at least 2 different thicknesses of laminated glass (between 8.38mm and 25mm thick)
 - completed all of the following on both annealed and laminated glass:
 - straight cuts by hand and diamond saws
 - simple shapes
 - truncated and radius corners
 - circles and ovals.
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Knowledge Evidence

There must be evidence the candidate has knowledge of:

- purpose and key provisions of Australian Standard AS/NZS 4667
- mathematical procedures for optimisation
- types of information commonly found in work instructions and how to interpret
- thick glass:
 - qualities and characteristics, including hazards and handling requirements
 - workplace safety system requirements
 - work flow requirements
 - cutting techniques, the types of problems that may occur and how to avoid and respond
 - laminate requirements as glass thickness increases
 - quality assurance
 - workplace documentation requirements
- types, characteristics, safe use, maintenance and limitations of glass cutting tools and equipment:
 - circle
 - speed
 - tungsten wheel.
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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:
 - glass sheet and/or product greater than 8mm to be cut
 - equipment, tools and materials to complete tasks specified in the Performance Evidence
 - 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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