



Australian Government

MSFGG2015 Process glass by basic machines

Release: 1

MSFGG2015 Process glass by basic machines

Modification History

Release 1. Supersedes and is not equivalent to MSFGG2007 Process glass by basic machines.

Application

This unit describes the skills and knowledge required to shape, drill and edge annealed glass using basic machines involving hand-held and static processes.

This unit applies to glass processing workers and glaziers.

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 job 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 processing is conducted in a logical order
2. Prepare for work	2.1 Select glass processing table and clear work surface of debris and dust 2.2 Clear work area of obstructions and potential hazards 2.3 Check glass for imperfections and damage prior to handling 2.4 Relocate glass to be processed in the work area using appropriate handling techniques

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 in accordance with workplace standards 2.6 Identify and test components and controls of machines, including emergency stops and guards and take appropriate action if not in working order
3. Conduct processing operations	3.1 Operate and monitor tools and equipment in accordance with manufacturer instructions and workplace procedures to achieve correct product quality and output 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 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 MSFGG2015 Process glass by basic machines

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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 processes in accordance with all safety requirements and Australian Standard AS/NZS 4667: Quality requirements for cut-to-size and processed glass using basic machines (hand-held and static operation):
 - for annealed glass up to 8mm, and for laminated glass up to 8.38mm:
 - aris
 - flat polish
 - flat grind
 - round and polish
 - mitre edge
 - holes with tungsten drill bits
 - holes with diamond drill bits.
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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: (all sections)
- workplace safety system requirements related to glass processing by basic machines
- work flow requirements in relation to glass processing
- mathematical procedures for estimation and measurement, including calculation of area and estimation of material requirements
- qualities and characteristics of annealed and laminated glass, including hazards and handling requirements
- common work requirements for work requiring basic machine processing, including: drilling and edging – arising, flat finish, round and mitre bevelling, grinding, polishing
- types, characteristics, safe use, maintenance and limitations of glass cutting tools and equipment, including defect reporting for:
 - diamond drills and/or presses – freestanding, portable, wall-mounted
 - edging machines:
 - diamond or pencil edgers
 - finger slotters

- finishing or belt machines,
- hand tools
- pumice or cork polishers
- lubricants
- marking tools
- measuring tools, including tape measures, L-squares and straight edges
- templates
- procedures for basic machine processing, the types of problems that may occur and how to avoid and respond
- quality indicators for processed glass
- procedures for the recording, reporting and maintenance of workplace records and information.
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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 to complete tasks in the Performance Evidence
 - glass product to be processed
 - 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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