



Australian Government

MSFSL3008 Process coloured and textured glass by hand

Release: 1

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Modification History

Release 1. New unit

Application

This unit specifies the skills and knowledge required to cut, shape and apply finishing techniques to annealed coloured and textured glass of manufactured thickness.

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

Pre-requisite Unit

Nil

Competency Field

Unit Sector

Leadlight and stained glass

Elements and Performance Criteria

Elements describe the essential outcomes.

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

1	Determine job requirements	1.1	Follow standard operating procedures (SOPs)
		1.2	Comply with work health and safety (WHS) requirements at all times
		1.3	Use appropriate personal protective equipment (PPE) in accordance with SOPs
		1.4	Identify job requirements, including materials, types of cuts, shapes and edges, processes and quantities required, from specifications, drawings, designs, job sheets or work instructions
2	Plan and prepare	2.1	Select and check tools, equipment and thin glass

for work		materials prior to use to ensure they are appropriate for the work and are in a safe and serviceable condition
	2.2	Determine cutting list and identify quality standards and procedures in accordance with workplace requirements and industry standards
	2.3	Select glass to be cut and processed to industry standard tolerances using information from the work order, including type of glass, thickness, colour, texture and dimensions
	2.4	Identify and prepare equipment and settings required to perform the work
	2.5	Plan the work sequence in a logical order to suit the job
	2.6	Select suitable cutting, shaping and lubrication methods
	2.7	Select glass processing table and clear surface and work area of debris, dust, obstructions and potential hazards with cullet bins located close to work area
	2.8	Check glass for imperfections and damage prior to handling
	2.9	Locate glass to be processed in the work area using correct manual handling techniques and procedures
3	Process glass	3.1 Measure glass within specified tolerances so as to minimise waste according to enterprise standards
		3.2 Operate and monitor tools and equipment in accordance with manufacturer instructions and workplace procedures to ensure correct quality and output
		3.3 Process glass to required standard in accordance with job order, work instructions and procedures, including the performance of routine lubrication and adjustments of tools/equipment
		3.4 Identify and report problems occurred during work operations to appropriate personnel in accordance with workplace procedures
		3.5 Follow authorised changes in working procedures and/or requirements

		3.6	Inspect completed product for quality of work and items found defective are repaired, reprocessed or discarded in accordance with workplace procedures
4	Complete work	4.1	Label and store processed glass ensuring there are no projections in accordance with procedures
		4.2	Remove scraps and off-cuts for disposal and/or recycling as required
		4.3	Remove and store tools, equipment and unused materials in accordance with SOPs
		4.4	Clean work area and dispose of rubbish as appropriate
		4.5	Complete workplace documentation in accordance with SOPs

Foundation Skills

This section describes those required skills (reading, writing, oral communication and numeracy) that are essential to workplace performance in this unit of competency.

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

Range of Conditions

This field allows for 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.

Unit context includes:

- WHS requirements, including legislation, building codes, material safety management systems, hazardous and dangerous goods codes and local safe operating procedures or equivalent
- work is carried out in accordance with legislative obligations, environmental legislation, relevant health regulations, manual handling procedures and organisation insurance requirements
- work requires individuals to demonstrate some discretion, judgement and problem solving

Materials include one (1) or more of the following:

- annealed coloured and textured glass suitable for architectural and stained glass
- furniture applications and mirrors
- speciality glasses, including flash coloured glass and antique glass

Tools and equipment include:

- flat felt covered cutting tables
- tungsten wheel glass cutters
- circle cutters
- L-squares and straight edges
- tape measures
- marking pens and chinagraph pencils
- templates and lubricants
- tables appropriate for cutting glass

Thin glass includes:

- annealed coloured and textured glass of manufactured thickness

Glass processing by hand includes:

- cutting
- shaping

PPE includes one (1) or more of the following:

That prescribed under legislation, regulations and enterprise policies and practices, including:

- gloves
- safety glasses
- gauntlets
- safety footwear
- earmuffs
- aprons and overalls

Information and procedures include one (1) or more of the following:

- workplace procedures relating to the use and operation of tools and equipment and PPE
- workplace instructions including job sheets, cutting lists, plans, drawings and designs
- workplace procedures relating to reporting and communications
- manufacturer specifications and operational procedures

Unit Mapping Information

New 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 MSFSL3008 Process coloured and textured glass by hand

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Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy the requirements of the elements and performance criteria and include:

- following work instructions, SOPs and safe work practices
- identifying and interpreting specifications, drawings, standards and other relevant information to process coloured and textured glass by hand
- applying safe handling requirements for equipment, products and materials, including the use of PPE
- identifying and selecting materials to be used in the work process
- using mathematical ideas and techniques to complete measurements, including calculating area and estimating material requirements
- using tools and equipment in a safe and effective manner
- completing straight cuts by hand and cutting simple shapes, truncated and radius corners and circles in annealed coloured and textured glass
- calculating the cost of jobs
- disposing of scrap and off-cuts in accordance with environmental guidelines and workplace procedures
- communicating and working effectively and safely with others.

Knowledge Evidence

Evidence required to demonstrate the required knowledge for this unit must be relevant to and satisfy the requirements of the elements and performance criteria and include knowledge of:

- safe work practices and procedures and use of PPE
- qualities and characteristics of coloured and textured glass, including hazards and handling requirements
- correct identification and use of glass cutting equipment, their functions and procedures for use
- set-up and operation of glass cutting equipment, including procedures for reporting product defects or equipment faults
- work flow requirements related to glass cutting
- environmental protection requirements relating to the disposal of waste material
- established communication channels and protocols.

Assessment Conditions

- Assessors must:
 - satisfy the assessor competency requirements that are in place at the time of the assessment as set by the VET regulator
 - have vocational competency in processing coloured and textured glass by hand at least to the level being assessed with relevant industry knowledge and experience
- Where possible assessment must occur in operational workplace situations. Where this is not possible or where personal safety or environmental damage are limiting factors, assessment must occur in a sufficiently rigorous simulated environment that reflects realistic operational workplace conditions that cover all aspects of workplace performance, including environment, task skills, task management skills, contingency management skills and job role environment skills.
- Conditions for assessment must include access to all tools, equipment, materials and documentation required, including relevant workplace procedures, product and manufacturing specifications.
- Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

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