



Australian Government

MSFSL3005 Paint and fire glass

Release: 1

MSFSL3005 Paint and fire glass

Modification History

Release 1 - New unit of competency

Application

This unit of competency covers applying patterns and/or designs to glass with vitreous paints to achieve specific outcomes through the firing of glass.

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

Pre-requisite Unit

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 | Identify painting and firing requirements | 1.1 | Applicable work health and safety (WHS), legislative and organisational requirements relevant to leadlight and stained glass operations are verified and complied with |
| | | 1.2 | Types and quantities of patterns, designs and materials required are identified from plans or work instructions |
| | | 1.3 | The processes for painting patterns and designs onto glass and achieving specific outcomes through the firing of glass are identified |
| 2 | Prepare to paint and fire glass | 2.1 | Painting sequence is determined in a logical order to suit the job |
| | | 2.2 | Tools, equipment and materials are selected and checked prior to use to ensure they are appropriate for painting and firing, serviceable and in a safe condition |
| | | 2.3 | Patterns and design templates are checked against |

- specifications or job order
- 2.4 Paint colours are matched against the plan or work order and glass prepared for painting
- 3 Apply vitreous paint
- 3.1 Paint is applied to the glass surface in accordance with the pattern or design template
- 3.2 Any problems occurring during the painting operation are identified and rectified
- 4 Conduct firing operations
- 4.1 Firing sequence is determined in a logical order to suit the job
- 4.2 Kiln is checked prior to use to ensure it is appropriate for the firing, serviceable and in a safe condition
- 4.3 Kiln components and controls, including emergency stops and guards, are identified and checked for correct operation
- 4.4 Glass is prepared for firing and kiln equipment is operated, adjusted and monitored to ensure correct product quality and output
- 4.5 Any problems occurring during the firing operation are identified and rectified
- 5 Finalise the work
- 5.1 Painted and fired glass is inspected for quality of work and repaired or discarded, as required
- 5.2 Waste and scrap material are removed for disposal or recycling, as required
- 5.3 Work area is cleaned and rubbish disposed of, as appropriate
- 5.4 Tools, equipment and unused materials are cleaned and removed and stored appropriately
- 5.5 Workplace records are maintained according to workplace procedures

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.

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
Patterns and designs include:	• freehand or computer-drawn templates • artwork to be transferred to glass • designs to be transferred to glass • other patterns
Materials include:	• clear, coloured or painted glass • vitreous paints • bedding sand • marking and masking materials
Specific outcomes include:	painting • staining • forming
Tools and equipment include:	• work benches • light tables • paint brushes and other applicators • general hand tools • firing kiln
Preparation includes:	• cleaning • marking

- Records include:**
- masking
 - applying templates
 - product type
 - size
 - inspection
 - inspection outcomes
 - quality outcomes
 - storage locations
- Personal protective equipment includes:**
- that prescribed under legislation, regulation and enterprise policies and practices:
 - gauntlets
 - gloves
 - safety glasses
 - hard hats
 - safety footwear
 - aprons and overalls
- Information and procedures include:**
- workplace procedures relating to the use of tools and equipment and personal protective equipment
 - work instructions, including job sheets, cutting lists, plans, drawings and designs
 - workplace procedures relating to reporting and communication
 - manufacturer specifications and operational procedures

Unit Mapping Information

Supersedes and is equivalent to LMFSL3007A Paint and fire glass.

Links

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