



Australian Government

MSFDG3003 Paint and fire glass

Release: 1

MSFDG3003 Paint and fire glass

Modification History

Release 1. Supersedes and is equivalent to MSFSL3005 Paint and fire glass.

Application

This unit describes the skills and knowledge required to apply patterns and/or designs to glass with vitreous paints to achieve specific outcomes through the firing of glass.

This unit applies to individuals working with designed glass.

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

Leadlight and Stained Glass

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 painting and firing requirements	1.1 Identify and follow work health and safety, legislative and workplace procedures 1.2 Identify types and quantities of patterns, designs and materials required from plans or work instructions 1.3 Identify the processes for painting patterns and designs onto glass and achieving specific outcomes through the firing of glass
2. Prepare to paint and fire glass	2.1 Determine painting sequence in a logical order to suit the job 2.2 Select and check tools, equipment and materials for suitability, serviceability and safety prior to use 2.3 Check patterns and design templates against specifications or job order 2.4 Match paint colours against the plan or work order and prepare glass for painting

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
3. Apply vitreous paint	3.1 Apply paint to the glass surface in accordance with the pattern or design template 3.2 Identify and rectify any problems occurring during the painting operation
4. Conduct firing operations	4.1 Determine firing sequence in a logical order to suit the job 4.2 Check kiln prior to use to ensure it is appropriate for the firing, serviceable and in a safe condition 4.3 Identify and check kiln components and controls, including emergency stops and guards, for correct operation 4.4 Prepare glass for firing and operate, adjust and monitor kiln equipment to ensure correct product quality and output 4.5 Identify and rectify any problems occurring during the firing operation
5. Finalise the work	5.1 Inspect painted and fired glass for quality of work and repair or discard in accordance with workplace procedures 5.2 Clean and store tools, equipment and materials in accordance with workplace procedures 5.3 Clean work area is cleaned and leave in a safe condition and dispose of waste or recycle in accordance with workplace protocols 5.4 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

Supersedes and is equivalent to MSFSL3005 Paint and fire glass.

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 MSFDG3003 Paint and fire 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:

- painted and fired glass using both of the following techniques:
 - freehand process
 - template process.
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Knowledge Evidence

There must be evidence the candidate has knowledge of:

- state or territory work health and safety legislation, regulations, standards, codes of practice, relevant to the full range of processes for painting and firing glass
- organisational and site standards, requirements, policies and procedures for glass painting and firing
- glass painting and firing terminology and techniques
- types of glass suitable for painting and firing, their properties, uses and limitations
- types of vitreous paints, their characteristics, properties, uses and limitations
- techniques for application of different types of patterns and designs
- operation of glass firing kiln
- characteristics and properties of glass when heat is applied and the likely impact of various environmental effects on painted and fired glass
- environmental protection requirements relating to the disposal of waste material
- problem identification and resolution relating to painting and firing glass
- storage systems and labelling
- procedures for the recording, reporting and maintenance of workplace records and information
- mathematical procedures for estimation and measurement.
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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 for painting
- kiln
- tools and equipment to complete tasks in the Performance Evidence
- workplace procedures.

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

Links

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