



Australian Government

MSFDG3005 Fuse glass

Release: 1

MSFDG3005 Fuse glass

Modification History

Release 1. Supersedes and is equivalent to MSFSL3007 Fuse glass.

Application

This unit describes the skills and knowledge required to fuse glass. It includes operating and monitoring kilns to fuse glass for manufacture of customised formed glass products.

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. Determine job requirements	1.1 Identify and follow work health and safety requirements and other workplace procedures 1.2 Identify job requirements from specifications, drawings, designs, job sheets or work instructions
2. Plan and prepare for work	2.1 Identify the process for obtaining materials and moving completed work to the next process 2.2 Identify the procedures for checking the quality of materials and items produced, working condition of kiln and any other equipment and/or attachments and quality requirements for each stage of the fusing process 2.3 Establish and maintain communication with others involved in the work to ensure efficient work flow coordination, personnel cooperation and safety throughout the work 2.4 Plan the work sequence in a logical order to suit the job

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 Select and check kilns, tools, equipment and materials prior to use to ensure they are appropriate for the work and are in a safe and serviceable condition 2.6 Identify and check kiln components and controls, including emergency stops and guards for correct operation
3. Conduct glass fusing operations	3.1 Operate, adjust and monitor kiln and fusing equipment to ensure correct product quality and output in accordance with workplace procedures 3.2 Identify and use appropriate firing and annealing schedules 3.3 Identify, manage and control root causes of problems making adjustments to ensure quality 3.4 Identify and report problems that occurred during work operations to appropriate personnel in accordance with workplace procedures 3.5 Follow authorised changes in working procedures or requirements
4. Complete work	4.1 Inspect product for quality against work instructions and re-work or discard items that do not meet requirements 4.2 Identify and store items for recycling in accordance with workplace procedures 4.3 Clean work area and safely dispose of rubbish 4.4 Check, clean and store tools and equipment in accordance with workplace procedures 4.5 Complete workplace documentation in accordance with SOPs

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 MSFSL3007 Fuse 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 MSFDG3005 Fuse glass

Modification History

Supersedes and is equivalent to MSFSL3007 Fuse glass.

Performance Evidence

There must be evidence the candidate has completed the tasks outlined in the elements and performance criteria of this unit, and:

- used 3 different fusing techniques to the capacity of the kiln being used.
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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 and codes of practice relevant to the full range of processes for assembling copper foil components
- qualities and characteristics of fusing glass, including hazards and handling requirements
- equipment, processes and procedures for fusing glass
- procedures for reporting materials, product or equipment faults
- correct operation of kilns and understanding of the development of kiln firing schedules
- problem identification and resolution relating to fusing glass
- work flow requirements related to fusing of glass
- environmental protection requirements relating to the disposal of waste material
- characteristics of materials used and uses of products produced.
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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 fusing
 - kiln
 - tools and equipment to complete tasks in the Performance Evidence
 - workplace procedures.
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