



Australian Government

MSFSL3007 Fuse glass

Release: 1

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Modification History

Release 1. New unit

Application

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

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 from specifications, drawings, designs, job sheets or work instructions

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| 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/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 |
| | | 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 with adjustments as required |
| | | 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 |
| 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 | Remove waste and scrap material for disposal and/or recycling as required |

- 4.3 Remove and/or store tools, equipment and unused material as appropriate
- 4.4 Clean work area and kiln 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
- Work instructions include one (1) or more of the following:**
- material to be used
 - pattern or mould to be used
 - process required to complete work tasks
 - number of sheets to be formed and holding area for completed items
 - the correct firing schedules suitable for the glass being fused
- Glass for fusing includes one (1) or more of the following:**
- compatible fusing glass
 - float glass (compatible)
 - patterned glass (compatible)
- Materials include:**
- compatible fusing glass
 - suitable fusing surface materials
 - suitable mould releases
- Tools and equipment include:**
- kiln with appropriate controllers
 - moulds
 - refractory suitable surfaces/shelves and furniture
 - polarising/annealing stress testing lenses
- PPE includes one (1) or more of the following:**
- That prescribed under legislation, regulations and enterprise policies and practices, including:
- heat rated protective gloves
 - safety glasses
 - respirator masks

- safety footwear
- 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.education.gov.au/Pages/TrainingDocs.aspx?q=0601ab95-583a-4e93-b2d4-cfb27b03ed73>