



Australian Government

MSFGG3024 Form glass

Release: 1

MSFGG3024 Form glass

Modification History

Release 1. Supersedes and is equivalent to MSFGG3008 Form glass.

Application

This unit describes the skills and knowledge required to form glass in kilns for manufacture of customised formed glass products. Patterns may be existing moulds or improvised designs.

This unit applies to glass processing workers forming product in accordance with pre-determined work orders.

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

Glass and Glazing

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 work requirements	1.1 Read work instructions and identify job and quality requirements 1.2 Identify and follow work health and safety requirements, using all required personal protective equipment 1.3 Identify the process for obtaining materials and moving completed work to the next process and plan work sequence in a logical order to suit the job 1.4 Establish and maintain communication with others involved with the work
2. Prepare for work	2.1 Select and check required kiln tools, equipment and materials for suitability, serviceability and safety prior to use 2.2 Identify and check kiln components and safety controls for correct operation

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. Conduct glass forming operations	3.1 Operate, adjust and monitor kiln and forming equipment in accordance with workplace procedures to ensure correct product quality and output 3.2 Identify and report problems occurring during work operations to appropriate personnel in accordance with workplace procedures 3.3 Follow authorised changes in working procedures and/or requirements 3.4 Inspect product for quality against work instructions, and rework or discard items that do not meet requirements
4. Complete work	4.1 Clean work area, safely dispose of rubbish and identify items for recycling in accordance with workplace procedures 4.2 Remove and store tools, equipment and unused materials in accordance with workplace procedures 4.3 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 MSFGG3008 Form 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 MSFGG3024 Form 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:

- formed glass of 4 differing patterns in accordance with all job and safety requirements using slumping techniques to the capacity of the kiln being used.
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Knowledge Evidence

There must be evidence the candidate has knowledge of:

- workplace safety system requirements related to the forming of glass, including personal protective equipment
- work flow requirements in relation to forming of glass
- mathematical procedures for estimation and measurement, including calculation of area and estimation of material requirements
- qualities and characteristics of glass to be formed, including hazards and handling requirements:
 - float glass
 - patterned glass
 - sheet glass
- content of typical work instructions for glass forming, including:
 - materials 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 kiln settings for the glass being formed
- types, characteristics, safe use, maintenance and limitations of glass forming tools, equipment and materials:
 - dowel
 - kilns
 - moulds and items for background patterns
 - sand and patterning material
 - sea shells
 - trowels
 - wire

- techniques for forming glass, the types of problems that may occur and how to avoid and respond
- quality indicators for formed glass
- procedures for the recording, reporting and maintenance of workplace records and information.
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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 processing work area equipped with required safety and personal protective equipment
 - equipment, tools and materials to complete tasks in the Performance Evidence
 - unprocessed product to be formed
 - work orders
 - workplace procedures.
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