



Australian Government

MSFGG3008 Form glass

Release: 1

MSFGG3008 Form glass

Modification History

Release 1 - New unit of competency

Application

This unit of competency covers operating and monitoring glass forming in kilns 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

Competency Field

Unit Sector

Glass and Glazing

Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

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|---|----------------------------|-----|--|
| 1 | Identify work requirements | 1.1 | Work requirements are identified from work instructions |
| | | 1.2 | Work health and safety (WHS) requirements relevant to forming glass, including personal protective equipment, are observed throughout the work |
| | | 1.3 | The process for obtaining materials and moving completed work to the next process is identified |
| | | 1.4 | Procedures for checking the quality of materials and items produced, working condition of kiln and any other equipment/attachments and the quality requirements for each stage of the forming process are identified |
| | | 1.5 | Communication with others involved with the work is established and maintained to ensure efficient work flow coordination, personnel cooperation and safety throughout the work |

2	Prepare for work	2.1	Work sequence is planned in a logical order to suit the job
		2.2	Kiln, tools, equipment and materials are selected and checked prior to use to ensure they are appropriate for the work, serviceable and in a safe condition
		2.3	Kiln components and controls, including emergency stops and guards, are identified and checked for correct operation
3	Conduct glass forming operations	3.1	Kiln and forming equipment are operated, adjusted and monitored in accordance with workplace procedures to ensure correct product quality and output
		3.2	Problems occurring during work operations are identified and reported to appropriate personnel in accordance with workplace procedures
		3.3	Authorised changes in working procedures and/or requirements are followed
4	Complete work	4.1	Product is inspected for quality against work instructions, and items that do not meet requirements are re-worked or discarded
		4.2	Waste and scrap material are removed for disposal or recycling, as required
		4.3	Tools, equipment and unused materials are removed and/or stored, as appropriate
		4.4	Work area and kiln are cleaned and rubbish disposed of, as appropriate
		4.5	Workplace documentation is completed as required by 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.

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| Unit context includes: | <ul style="list-style-type: none">• 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: | <ul style="list-style-type: none">• 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 |
| Glass for forming includes: | <ul style="list-style-type: none">• sheet glass• float glass• patterned glass |
| Materials include: | <ul style="list-style-type: none">• float glass• sand and patterning material, such as silicone• dowel• sea shells |
| Tools and equipment include: | <ul style="list-style-type: none">• kiln bed (sand bed screed flat and firm to create the patterns or artwork)• moulds and items for background patterns, such as paint rollers• wire• trowels |
| Personal protective equipment includes: | <ul style="list-style-type: none">• that prescribed under legislation, regulation and enterprise policies and practices:<ul style="list-style-type: none">• gauntlets• gloves• safety glasses• hard hats• safety footwear |

Information and procedures include:

- aprons and overalls
- 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 LMFGG3007C 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 MSFGG3008 Form glass

Modification History

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Performance Evidence

- Interpret work order and locate and apply relevant information
- Apply safe handling requirements for equipment, products and materials, including use of personal protective equipment
- Identify materials used in the work process
- Follow work instructions, operating procedures and inspection processes to:
 - minimise the risk of injury to self or others
 - prevent damage to goods, equipment and products
 - maintain required production output and product quality
- Complete forming glass of four (4) differing patterns using varying slumping techniques to the capacity of the kiln being used (patterns may be existing moulds or improvised designs)
- Use mathematical ideas and techniques to correctly complete measurements, calculate area and estimate material requirements
- Communicate ideas and information to enable confirmation of work requirements and specifications and the reporting of work outcomes and problems, interpret basic plans and follow safety procedures
- Avoid backtracking, work flow interruptions or wastage
- Work with others and in a team by recognising dependencies and using cooperative approaches to optimise work flow and productivity

Knowledge Evidence

- Qualities and characteristics of glass, including hazards and handling requirements
- Correct identification of equipment, processes and procedures for forming glass
- Procedures for reporting materials, product or equipment faults
- Correct operation of kilns
- Workplace safety system requirements related to the forming of glass
- Work flow requirements in relation to forming of glass
- Characteristics of materials used and uses of products produced

Assessment Conditions

- Assessors must:
 - hold training and assessment competencies as determined by the National Skills Standards Council (NSSC) or its successors

- have vocational competency in the furnishing industry at least to the level being assessed with broad industry knowledge and experience, usually combined with a relevant industry qualification
- be familiar with the current skills and knowledge used and have relevant, current experience in the furnishing industry.
- Assessment methods must confirm consistency of performance over time rather than a single assessment event and in a range of workplace relevant contexts.
- Assessment must be by observation of relevant tasks with questioning on underpinning knowledge and, where applicable, multimedia evidence, supervisor's reports, projects and work samples.
- Assessment is to be conducted on single units of competency or in conjunction with other related units of competency. Foundation skills are integral to competent performance in the unit and should not be assessed separately.
- Assessment must occur on the job or in a workplace simulated facility with relevant process, equipment, materials, work instructions and deadlines.
- Access is required to glass forming equipment, kiln, an appropriate work area, work order, standard operating procedures and unprocessed materials.

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