



Australian Government

MSFGG3009 Apply patterns and designs to glass

Release: 2

MSFGG3009 Apply patterns and designs to glass

Modification History

Release 2 - Minor additional information added to Range of Conditions and Performance Evidence.

Release 1 - New unit of competency

Application

This unit of competency covers applying patterns and/or designs to glass surfaces to manufacture decorative 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.

1	Identify work requirements	1.1	Work instructions are obtained and followed
		1.2	Work health and safety (WHS) requirements for application of patterns and designs to glass surfaces, including personal protective equipment, are observed throughout the work
		1.3	Tools and equipment suitable to the work method are assembled and the process for applying patterns and designs to glass surfaces identified
2	Prepare for work	2.1	Work sequence is planned in a logical order to suit the job and workplace procedures
		2.2	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	Pattern or design template, if required, is produced from plan or design or drafted from existing design or pattern
	2.4	Procedures are identified for checking the quality of materials and items produced and quality requirements for each stage of the application process
3	Apply pattern or design to glass surface	3.1 Pattern or design template is applied or glass surface is masked, as necessary, with appropriate materials
		3.2 Pattern or design is applied to glass surface in accordance with workplace procedures or industry practice
		3.3 Problems occurring during operation are identified and reported to appropriate personnel in accordance with workplace procedures, and any authorised changes in working procedures followed
4	Complete work	4.1 Product is inspected for quality of work and repaired or discarded, as required, in accordance with workplace procedures
		4.2 Waste and scrap material are removed for disposal or recycling, as required
		4.3 Work area is cleaned and rubbish disposed of, as appropriate
		4.4 Tools and equipment are cleaned and stored following workplace procedures
		4.5 Workplace documentation is completed, as required

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.

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, relevant Australian Standards, manual handling procedures and organisation insurance requirements • work requires individuals to demonstrate some discretion, judgement and problem solving
Work instructions include:	• material to be used for application of design or pattern • pattern or plan to be followed • process required to complete work tasks • items to which pattern or design is to be applied • holding area for completed items • the material curing time (if required) for the type of material used and type of glass
Applying patterns and designs includes:	• chemical etching • sandblasting • screen printing • digital printing
Tools and equipment include:	• sandblasting equipment • masking materials • templates • etching chemicals • screen printing equipment • digital printing equipment
Materials include:	• annealed glass • laminated glass • toughened glass • mirrors
Personal protective equipment includes:	• that prescribed under legislation, regulation and enterprise policies and practices and those prescribed in the relevant material safety data sheets for the products being used: • gauntlets • gloves • safety glasses • hard hats

Information and procedures include:

- safety footwear
- respirator
- 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
- Material Safety Data Sheets and Technical Data Sheets

Unit Mapping Information

Supersedes and is equivalent to LMFGG3008C Apply patterns and designs to 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 MSFGG3009 Apply patterns and designs to glass

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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
- Draw and cut freehand designs
- Set up, process, upload, cut and apply designs from computerised software programs
- Complete a minimum of two from the following methods of applying patterns and designs to glass:
 - Stage sandblasting on glass
 - Stage screen printing on glass
 - Stage digital printing on glass
- 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 and materials, including hazards and handling requirements
- Procedures, techniques and means of applying patterns and designs to glass surfaces
- Workplace safety system requirements related to the application of patterns and designs to glass surfaces
- Work flow requirements in relation to other stages of the work process

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 template materials/patterns, masking materials, application equipment, workplace operating procedures, unprocessed glass, personal protective equipment and an appropriate work area.

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