



Australian Government

Department of Education, Employment and Workplace Relations

LMFGG3008B Apply patterns and designs to glass

Revision Number: 1

LMFGG3008B Apply patterns and designs to glass

Modification History

Not applicable.

Unit Descriptor

Unit descriptor	This unit addresses the knowledge and skills required to apply patterns and/or designs to glass surfaces.
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Application of the Unit

Application of the unit	
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Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Prerequisite units	Nil	

Employability Skills Information

Employability skills	This unit contains employability skills.
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Elements and Performance Criteria Pre-Content

<p>Elements describe the essential outcomes of a unit of competency.</p>	<p>Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.</p>
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Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Identify work requirements	<p>1.1. Work instructions are used to identify:</p> <ul style="list-style-type: none"> 1.1.1. material to be used for application of design or pattern 1.1.2. pattern or plan to be followed 1.1.3. process required to complete work tasks 1.1.4. items to which pattern or design is to be applied 1.1.5. holding area for completed items 1.1.6. the material curing time (if required) for the type of material used and type of glass <p>1.2. Workplace health and safety requirements for application of patterns and designs to glass surfaces, including personal protection needs, are observed throughout the work</p> <p>1.3. Tools and equipment suitable to the work method are identified</p> <p>1.4. The process for applying patterns and designs to glass surfaces is identified</p>
2. Prepare for work	<p>2.1. Work sequence is planned in a logical order to suit the job</p> <p>2.2. Tools, equipment and materials are selected and checked prior to use to ensure that they are appropriate for the work, serviceable and in a safe condition</p> <p>2.3. Pattern or design template (if required) is produced from plan or design or drafted from existing design or pattern</p> <p>2.4. Procedures are identified for checking:</p> <ul style="list-style-type: none"> 2.4.1. quality of materials and items produced 2.4.2. quality requirements for each stage of the application process
3. Apply pattern or design to glass surface	<p>3.1. Pattern or design template is applied or glass surface is masked as necessary with appropriate materials</p> <p>3.2. Pattern or design is applied to glass surface in accordance with workplace procedures or industry practice</p> <p>3.3. Problems occurring during operation are identified and reported to appropriate persons in accordance with workplace procedures</p> <p>3.4. Any authorised changes in working procedures are</p>

ELEMENT	PERFORMANCE CRITERIA
	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 is removed for disposal or recycling as required 4.3. Work area is cleaned and rubbish disposed of as appropriate 4.4. Workplace documentation is completed as required 4.5. Tools and equipment are cleaned and stored following workplace procedures

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

This section describes the skills and knowledge required for this unit.

Required skills

- collect, organise and understand information related to work orders, basic plans, and safety procedures
- communicate ideas and information to enable confirmation of work requirements and specifications, coordination of work with work supervisor, other workers and customers, and the reporting of work outcomes and problems
- plan and organise activities including the preparation and layout of the work area and the obtaining of equipment and materials to avoid any back tracking, workflow interruptions or wastage
- work with others and in a team by recognising dependencies and using cooperative approaches to optimise workflow and productivity
- use mathematical ideas and techniques to correctly complete measurements, calculate work requirements and assemble required materials
- use pre-checking and inspection techniques to plan work, avoiding re-working and wastage
- use the limited workplace technology related to the application of designs and/or patterns to glass surfaces

Required knowledge

- the qualities and characteristics of glass and materials, including the 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
- workflow in relation to other stages of the work process

Evidence Guide

EVIDENCE GUIDE

The Evidence Guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.

Critical aspects of evidence

- Interpret work order/job instruction and locate and apply relevant information to apply patterns and/or designs to glass surfaces
- Prepare to apply patterns and designs to glass surfaces
- Follow work instructions, operating procedures and inspection practices to:
 - minimise the risk of injury to self and others
 - prevent damage to goods, equipment and products
 - maintain required production output and product quality
- As a minimum, demonstrate the ability to:
 - draw and cut freehand designs.
 - set up, process, upload and cut designs from computerised software programs
 - stage sandblasting on glass
 - stage screen printing on glass
- Work effectively with others
- Modify activities to cater for variations in workplace contexts and environment

Resource implications

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

Method of assessment

Assessment methods must confirm consistency of performance over time and in a range of workplace relevant contexts.

Assessment should be by direct observation of tasks and questioning on underpinning knowledge.

Assessment may be in conjunction with assessment of other relevant units of competency.

Context of assessment

Assessment may occur on the job or in a workplace simulated facility with relevant pattern/design process equipment, materials, work instructions and deadlines.

Range Statement

RANGE STATEMENT

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.

Unit context	<ul style="list-style-type: none"> • OHS requirements may include legislation, standards, building codes, material safety management systems and local safe operating procedures • Work is carried out in accordance with statutory requirements, environment legislation, manual handling procedures and relevant regulations and organisation insurance requirements • Work requires individuals to demonstrate discretion, judgement and problem solving skills in the application of designs and/or patterns to glass surfaces • Work is generally performed individually, with general supervision and may be part of a production process • Work may be performed in workplaces which are involved in the manufacture of decorative glass products
Patterns and designs	Patterns or designs may be applied to glass surfaces by chemical etching, sandblasting or screen printing
Tools and equipment may include:	<ul style="list-style-type: none"> • sandblasting equipment • masking materials • templates • etching chemicals and screen printing equipment
Materials are to include but are not limited to:	<ul style="list-style-type: none"> • annealed • laminated • toughened glass and mirrors
Personal protective equipment	Personal protective equipment is to include that prescribed under legislation, regulation and enterprise policies and practices. It may include:

RANGE STATEMENT	
	<ul style="list-style-type: none"> • gauntlets • gloves • safety glasses • hard hats • safety footwear • aprons and overalls
Information and procedures	<ul style="list-style-type: none"> • Equipment manufacturer specifications and operational procedures • Safety standards include: personal protective equipment, OHS regulations and enterprise requirements • Materials safety data sheets • Workplace procedures relating to the application of patterns or designs to glass • Work instructions, including job sheets, plans, drawings and designs

Unit Sector(s)

Unit sector	Glass and Glazing
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Competency field

Competency field	
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Co-requisite units

Co-requisite units	