



Australian Government

Department of Education, Employment and Workplace Relations

LMFGG1001B Complete a basic glass and glazing project

Revision Number: 1

LMFGG1001B Complete a basic glass and glazing project

Modification History

Not applicable.

Unit Descriptor

Unit descriptor	This unit covers the competency to prepare, fabricate and assemble a basic glass and glazing project.
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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

Elements describe the essential outcomes of a unit of competency.	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.
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Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Prepare for work	1.1. Work instructions are used to determine job requirements including design variations, tolerances, process, materials, finish and quantity 1.2. Work sequence is planned 1.3. Procedures are determined for checking quality at each stage of the process 1.4. Workplace health and safety requirements, including personal protection needs, are observed throughout the work 1.5. Suitable work area is selected for the task 1.6. Preparatory drawings/set outs for tasks are confirmed 1.7. Materials are selected following work instructions 1.8. Tools and equipment suitable for the work are identified and checked for safe and effective operation
2. Fabricate and assemble components	2.1. Material is set out according to work instructions, prepared, and components are marked according to workplace procedures 2.2. Tools, machines and equipment are used in accordance with safety requirements and manufacturers' specifications 2.3. Components are fabricated including any specified shapes, angles or curves and checked against set out and job requirements 2.4. Components are fitted to job requirements 2.5. Assembly process is undertaken according to workplace procedures 2.6. Item is checked for compliance with specifications 2.7. Item is finished in accordance with work instructions
3. Finalise operation and maintain equipment	3.1. Work area is cleaned, hand and/or power tools and equipment is cleaned, maintained and stored in accordance with workplace procedures 3.2. Off-cuts and unused materials are collected and stored for re-use or disposed following workplace procedures 3.3. Waste and scrap materials are dealt with 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 with work supervisor, other workers 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 area and estimate material requirements
- use pre-checking and inspection techniques to anticipate working problems, avoid re-working and wastage
- use the limited workplace technology related to this glass and glazing project including tools, equipment, materials and measuring devices

Required knowledge

- the interpretation of plan representation of product design
- the preparation of drawings/set outs
- workflow in relation to glass and glazing projects
- identification of glass and glazing hand and basic processing tools, materials, equipment, processes and procedures

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 instructions and locate and apply relevant information
- Apply safe handling requirements for equipment, products and materials, including use of personal protective equipment
- 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
 - achieve required production output and product quality
- Adapt or vary glass and glazing designs
- Prepare, fabricate and assemble at least one basic glass and glazing project which:
 - is of thin glass (annealed glass of less than or 6 mm thick or laminated glass of less than or 6.38 mm thick)
 - requires the use of glass and glazing hand tools and basic glass and glazing processing machines
- Work effectively with others
- Modify activities to cater for variations in workplace contexts and environment

Resource implications

Access to plans/designs, glass and glazing hand tools and/or basic processing machines, equipment, materials, a work area and a specified project.

Method of assessment

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

Assessment may be conducted 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 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	• Workplace health and safety requirements include OHS legislation, building codes, material safety management systems, hazardous substances and dangerous goods code and local safe operating procedures • Work is carried out in accordance with legislative obligations, environmental legislation, relevant health regulations, manual handling procedures and organisation insurance requirements • Work involves reading and interpreting plans, developing set-outs, using hand and power tools, operating basic machinery, applying quality requirements and applying product finishing techniques and materials • Work is conducted under supervision and guidance
Basic glass and glazing unit may include but is not limited to:	• fish tank • display case • flower vase/box • ornamental box/case Project is to be determined in consultation with supervisor/teacher
Tools and equipment may include, but are not limited to:	• flat felt covered cutting tables • tungsten wheel glass cutters • speed cutters • circle cutters • L-squares and straight edges • tape measures • glass handling gloves • safety glasses • gauntlets • aprons • marking pens

RANGE STATEMENT	
	• chinagraph pencils • templates and lubricants
Tables appropriate for cutting large glass sheets include:	• air flotation tables • roller castor tables or tilt tables with air flotation • breaker bars or roller castors
Edging equipment includes but is not limited to:	• finishing or belt machines • diamond or pencil edgers • pumice or cork polishers • horizontal wheels • finger slotters and hand tools
Drilling equipment may include, but is not limited to:	• portable • wall-mounted and free-standing diamond drill presses and saws
Materials to be used may include but are not limited to:	• annealed glass (less than or 6mm thick) and laminated glass (less than or 6.38mm thick) as deemed appropriate for the project
Personal protective equipment	Personal protective equipment is to include that prescribed under legislation, regulations and enterprise policies and practices. It may include: • gloves • safety glasses • gauntlets • footwear • earmuffs • aprons and overalls
Information and procedures	• Workplace procedures relating to the handling of glass • Workplace procedures relating to the setting and operation of glass cutting, drilling and edging machines • Workplace procedures relating to the use of other tools and equipment • Work instructions, including job sheets, plans, drawings and designs • Workplace procedures relating to reporting and communication • Manufacturer specifications and operational procedures • Safety standards include personal protective equipment, OHS regulations and enterprise

RANGE STATEMENT

	requirements
	AS4667 Quality requirements for cut to size and processed glass

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		