



Australian Government

MSFGG1001 Complete a basic glass and glazing project

Release: 1

MSFGG1001 Complete a basic glass and glazing project

Modification History

Release 1 - New unit of competency

Application

This unit of competency covers preparing, fabricating and assembling a basic glass and glazing project. It is designed for VET in Schools or pre-employment programs to introduce basic glass and glazing techniques and materials.

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	Prepare for work	1.1	Work instructions are used to determine job requirements for a basic glass and glazing job, including design variations, tolerances, process, materials, finish and quantity
		1.2	Work sequence is planned and procedures are determined for checking quality at each stage of the process
		1.3	Work health and safety requirements (WHS), including personal protective equipment, are observed throughout the work
		1.4	Preparatory drawings/set-outs for tasks are confirmed and a suitable work area selected
		1.5	Materials are selected following work instructions
		1.6	Tools and equipment and a table 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 marked according to workplace procedures
		2.2	Tools, machines and equipment are used in accordance with safety requirements and manufacturer 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 and the assembly process undertaken according to workplace procedures
		2.5	Item is checked for compliance with specifications and finished in accordance with work instructions using edging equipment, where required
3	Finalise operation and maintain equipment	3.1	Work area is cleaned, hand and/or power tools and equipment are 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 of following workplace procedures
		3.3	Waste and scrap materials are dealt with following 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.

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, manual handling procedures and organisation insurance requirements • work requires individuals to demonstrate some discretion, judgement and problem solving
Work instructions include:	• reading and interpreting plans • developing set-outs • using hand and power tools • operating basic machinery • applying quality requirements • applying product finishing techniques and materials
A basic glass and glazing project includes:	• fish tank • display case • flower vase/box • ornamental box/case
Tools and equipment include:	• 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 • chinagraph pencils • templates and lubricants drilling equipment (e.g. portable or wall-mounted) • free-standing diamond drill presses and saws
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
Materials include:	• annealed glass (less than or 7 mm thick) and laminated glass (less than or 6.38 mm thick) as deemed appropriate for the project

Edging equipment includes:

- finishing or belt machines
- diamond or pencil edgers
- pumice or cork polishers
- horizontal wheels
- finger slotters
- hand tools

Personal protective equipment includes:

- that prescribed under legislation, regulations and enterprise policies and practices:
 - gloves
 - safety glasses
 - gauntlets
 - footwear
 - earmuffs
 - aprons and overalls

Information and procedures include:

- 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
- AS/NZS 4667:2000 Quality requirements for cut-to-size and processed glass

Unit Mapping Information

Supersedes and is equivalent to LMFGG1001C Complete a basic glass and glazing project.

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 MSFGG1001 Complete a basic glass and glazing project

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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
- Adapt or vary glass and glazing designs and prepare, fabricate and assemble at least one (1) basic glass and glazing project which:
 - is of thin glass (annealed glass or laminated glass of less than or 7 mm thick)
 - requires the use of glass and glazing hand tools and basic glass and glazing processing machines
- 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

- Interpretation of plan representation of product design
- Preparation of drawings/set-outs
- Work flow requirements in relation to glass and glazing projects
- Identification of glass and glazing hand and basic processing tools, materials, equipment, processes and procedures

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 plans/designs, glass and glazing hand tools and/or basic processing machines, project materials and a specified project.

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