Australian Government

MSFGG2002 Use, handle and store glass and glazing products and consumables

Release: 1

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Modification History

Release 1 - New unit of competency

Application

This unit of competency covers accurately identifying glass, glazing product and consumable characteristics and limitations to handle, correctly use and store them safely and effectively.

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 glass types, glazing products and consumables	1.1	Applicable work health and safety (WHS), legislative and organisational requirements relevant to glass and glazing work are verified and complied with
	1.2	The characteristics of glass types and glazing products are identified to determine their use and suitability for a range of glazing work
	1.3	Types and quantities of glazing consumables required for a glazing job are identified from plans or work instructions
2 Prepare to use glass and glazing products	2.1	Work requirements for glass and glazing work are determined in a logical order to suit the job
	2.2	Common glass and glazing tools, equipment, personal protective equipment, and their use in glass and glazing

			work are identified
		2.3	Glass to match work requirements is checked for type, size and imperfections
		2.4	Glazing products are selected in accordance with customer orders and Australian Standards
		2.5	Defective glazing products are reported for repair or replacement in accordance with workplace procedures
3	Handle and use glass and glazing consumables	3.1	Consumables are selected and checked prior to use to ensure they are appropriate for the planned glazing work
		3.2	Consumables are handled and used according to workplace procedures, manufacturer instructions and industry practice
		3.3	Any problems occurring when using consumables are identified, rectified and/or reported, where appropriate
4	Store glass and glazing consumables	4.1	Unused glass, glazing products and consumables are assembled after completion of the job, checked for reusability, cleaned and stored safely and effectively
		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

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
Glass types, their characteristics and appropriate use include:	• annealed glass • heat toughened and chemically strengthened glass • laminated glass • wired glass • tinted and heat reflective glass • coated glass and insulated glass units • low iron glass • self-cleaning glass • electrically heatable glass • low emissivity glass • mirrored glass

Glazing products, their characteristics and appropriate use include:	• g clamps:
	  • flat
	  • radius
	  • holeless
	• setting blocks and packers
	• U channel rubber
	• spider fittings:
	  • 2, 3 and 4 arm
	  • medium
	  • heavy duty
	• frameless glass hinges, brackets and handles
	• patch fittings and locks
	• articulated bolts
	• stand-offs, anchors, spigots and mini-posts
	• handrail brackets, slotted tube, joiners and body

Glazing consumables include:	- A frame 'top hat' sections and grommets - ball castors - clamp bars - silicone sealants: - neutral cure (clear, white and coloured) - anti-mildew sanitary (clear, white and coloured) - high performance/high joint movement for structural glazing - polyurethane sealants - glass cleaners and silicone removers - abrasives belts, discs and slurries: - silicon carbide - diamond - polishing items: - sprays and waxes - cerium oxide - acids (sulphuric and hydrofluoric) - felt polishing bobs - backing rod - butyl glazing tape - setting blocks - glazing pins - foam tape: - single - double-sided - structural - masking tape - mirror mounting tape - putty - horseshoe packers - safety glass decals - labels - gloves - blades - film - glass paint
Manufacturer instructions include:	- safe handling procedures - strength and load bearing rates - glazing product fixing procedures, techniques and templates - cutting and bending techniques - glass fixing materials

	• surface preparation before use
	• application techniques
	• tooling procedures
	• category of use, performance and structural strength
	• temperature range for use, curing and storage
	• shelf life
	• other storage requirements
Tools and equipment include:	• tungsten wheel glass cutters
	• speed cutters
	• circle cutters
	• squares, vacuum and other straight edges
	• plate and running pliers and snips
	• drills and countersinks
	• spine rollers
	• mallets
	• silicone guns
	• squeegees and holsters
	• five-way cutting-in tools
	• trim knives
	• scrapers
	• scourers
	• measures
	• calculator
	• chamois
	• heat guns
	• screwdrivers
	• spanners
	• restraint straps and ratchets
	• vacuum lifters:
	• flat
	• curved
	• double/single cup
Problems with consumables include:	• poor quality
	• past use-by date
	• damaged in storage
	• wrong category/rating consumable for the job
	• used on contaminated surfaces
	• poor gunning and silicone application technique
Personal protective equipment includes:	• that prescribed under legislation, regulation and enterprise policies and practices:
	• gauntlets

- gloves
- safety glasses
- ear protection
- hard hats
- safety footwear
- 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 - types and quantities of products and consumables obtained, used and stored

Unit Mapping Information

Supersedes and is equivalent to LMFGG2011A Use, handle and store glass and glazing products and consumables.

Links

Companion Volume implementation guides are found in VETNet - https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=0601ab95-583a-4e93-b2d4-cfb27b03ed73