



Australian Government

MSFGG3021 Prepare and install mirrors and glass splashbacks

Release: 1

MSFGG3021 Prepare and install mirrors and glass splashbacks

Modification History

Release 1 - New unit of competency

Application

This unit of competency covers measuring, preparing, fabricating and installing mirrors and glass splashbacks in residential and commercial locations.

Licensing, legislative or certification requirements may apply to this unit and relevant state/territory and local government agencies should be consulted to determine any necessary certification or licensing for undertaking glass and glazing work. Access to construction sites requires certification of general induction training specified by the *National Code of Practice for Induction for Construction Work* (ASCC 2007).

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.

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|---|-------------------------------------|-----|--|
| 1 | Identify and plan work requirements | 1.1 | Work requirements in the form of type, pattern/plan and quantity of mirrors or glass splashbacks to be prepared and installed are identified from work instructions |
| | | 1.2 | Work health and safety (WHS) requirements for fabrication and installation of mirrors and glass splashbacks, including personal protective equipment, are observed throughout the work |
| | | 1.3 | Work sequence is planned in a logical order to suit the job and workplace procedures |
| | | 1.4 | Quantities of materials required are calculated from plans or work instructions or by measuring the installation site |
| | | 1.5 | Fixing and joining devices or materials are selected in |

			accordance with specifications or type of materials to be joined and the surface on which the mirror or splashback is to be installed
		1.6	Tools and equipment suitable to the work method are identified
2	Prepare for work	2.1	Compatible materials, fixings, fasteners, tools and equipment needed to complete the work are selected and checked prior to use to ensure they are appropriate for the work, serviceable and in a safe condition
		2.2	Components of the mirror or splashback are checked against specifications or job order for size, quantity, finish and profile
3	Fabricate and install mirrors and glass splashbacks	3.1	Frame, if required, is fabricated in accordance with workplace procedures or industry practice
		3.2	Mirror or splashback glass is cut to size in accordance with workplace procedures and industry practice
		3.3	Mirror or splashback is edge worked, if required, in accordance with workplace procedures or industry practice
		3.4	Holes, where required, are drilled in frame, mirror or splashback in accordance with the plan, workplace procedures and industry practice
		3.5	Glass splashbacks are finished according to customer specifications
		3.6	Mirror or splashback is installed using appropriate fixing method in accordance with workplace procedures and industry practice
4	Complete work	4.1	Installed mirror or splashback is inspected for quality of work and repaired, re-fabricated or reinstalled, as required, in accordance with workplace procedures
		4.2	Waste, unused 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, equipment and unused materials are removed and stored appropriately according to workplace requirements

- 4.5 Workplace documentation is completed in accordance with 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.

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| Unit context includes: | <ul style="list-style-type: none">• 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 |
| Mirrors include: | <ul style="list-style-type: none">• framed• frameless• wall• return• safety and security mirrors• tinted |
| Glass splashbacks include: | <ul style="list-style-type: none">• framed• frameless• wall• return• toughened (tempered) clear or low iron glass used in:<ul style="list-style-type: none">• kitchens• bathrooms |

	• laundries (wet areas) • feature walls
Materials include:	• timber and metal framing materials • float and vinyl backed mirrors • fixings and fasteners • paint and other finishes for glass splashbacks
Tools and equipment include:	• tungsten wheel glass cutters • speed cutters • straight edges and squares • plate and running pliers • glass lifting and handling equipment • personal safety equipment • glass edging equipment • diamond drills and saws • water • spirit level • dumpy and laser levels • plumb bobs • chalk lines • tape measures • portable drills • general hand tools • paint and digital print application equipment • light emitting diode (LED) backlighting installation tools
Fixings and fasteners include:	• adhesive tapes • screws and rosettes • mirror and spring clips • hollow wall fasteners • rawl plugs • cloth and glues • and non-acidic silicones
Hole requirements include:	• power points • switches • warning lights • other cut-outs in specifications
Splashback finishes include:	• painted: • solid • metallic • satin • sparkle • gilded

	• digitally printed images • mirrored • sandblasted • tinted • LED back-lit
Personal protective equipment includes:	• that prescribed under legislation, regulation and enterprise policies and practices: • gauntlets • gloves • safety glasses • 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 • Australian Standards: • AS 1288:2006 Glass in buildings - Selection and installation • AS/NZS 4667:2000 Quality requirements for cut-to-size and processed glass • AS 2047:1999 Windows in buildings - Selection and installation

Unit Mapping Information

Supersedes and is equivalent to LMFGG3021A Prepare and install mirrors and glass splashbacks.

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 MSFGG3021 Prepare and install mirrors and glass splashbacks

Modification History

Release 1 - New unit of competency

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
- Measure for mirror and glass splashback installations and cut mirror and glass up to 8 mm, including vinyl-backed
- Carry out edge working
- Prepare walls for installation of mirrors and glass splashbacks
- Construct and fit mirrors and glass splashbacks, which may include frames
- Cut and drill holes in mirrors and glass splashbacks to cut-out specifications
- Identify and use spirit and/or laser levels to set plumb and level lines
- Fit framed and/or unframed, wall, safety and/or security mirrors, including return mirrors with minimal deflection
- Finish and fit glass splashbacks to specification and clean and present finished mirrors and/or glass splashbacks
- 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

- Work flow requirements in relation to the processing and installation of mirrors
- Workplace safety system requirements related to the processing and installation of mirrors and glass splashbacks
- Characteristics of materials used and uses of products produced

- Identification of equipment, processes and procedures related to the fabrication and installation of mirrors and glass splashbacks
- Relevant Australian Standards, including minimum proximity of glass splashbacks to gas cooking appliances

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 mirror and splashback specifications, mirrors, aluminium framing material, toughened glass for splashbacks, splashback finishing materials and equipment, fixing/fasteners, workplace operating procedures and word orders, personal protective equipment and an appropriate work area.

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