



Australian Government

MSFGG2001 Use glass and glazing sector hand and power tools

Release: 1

MSFGG2001 Use glass and glazing sector hand and power tools

Modification History

Release 1 - New unit of competency

Application

This unit of competency covers selecting and using hand and power tools in applications relating to the glass and glazing sector of the furnishing industry, including basic aluminium fabrication.

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 hand and power tools	1.1	Types of hand and power tools and their functions are identified
		1.2	Sources of, and access to, power supply are recognised and used safely
		1.3	Work health and safety (WHS) requirements for using hand and power tools are recognised and implemented
2	Select and use hand tools	2.1	Hand tools are selected consistent with needs of job
		2.2	Hand tools are checked for serviceability and safety and any faults reported to supervisor in accordance with enterprise procedures
		2.3	Equipment is selected to hold, position or support material for hand tool application, where applicable

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| | | 2.4 | Material is located and held in position for hand tool application |
| | | 2.5 | Hand tools are safely and effectively used according to their intended use and safely stored when not in immediate use |
| 3 | Select and use power tools | 3.1 | Appropriate personal protective equipment is selected, correctly fitted and used at all times |
| | | 3.2 | Power tools are selected consistent with needs of job in accordance with conventional work practice |
| | | 3.3 | Power tools are visually checked for serviceability/safety in accordance with WHS requirements and any faults reported to supervisor in accordance with enterprise procedures |
| | | 3.4 | Equipment is selected to hold, position or support materials for power tool application, where applicable |
| | | 3.5 | Material to be worked on is located and held in position for power tool application, where applicable |
| | | 3.6 | Power tools are safely and effectively used in application processes |
| | | 3.7 | Power tools are safely switched off and stored when not in use |
| 4 | Clean up work area and tools | 4.1 | All tools and equipment are cleaned, maintained and stored with relevant documentation completed in accordance with enterprise procedures |
| | | 4.2 | Work area is cleared and waste removed |

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 organisational safe operating procedures or equivalent• work is carried out in accordance with state and federal legislative obligations, environmental legislation, manual handling procedures and organisation insurance requirements• work requires individuals to demonstrate some discretion, judgement and problem solving |
| Hand tools used in the glass and glazing sector include: | <ul style="list-style-type: none">• tungsten wheel glass cutters• speed cutters• circle cutters• vacuum straight edges• lever and vacuum lifters• plate and running pliers• pop rivet pliers• screwdrivers• tools for aluminium:<ul style="list-style-type: none">• knives• sheers• measuring devices• straight edge• square• assorted hammers• rollers• combination saw |
| Power tools used in the glass and glazing sector include: | <ul style="list-style-type: none">• portable electric drills• grinders• circular saws and jig saws• plunge routers• sanders• drop, radius, mitre and upcut saws• bench drills and grinders• portable pneumatic drills• nail and staple guns• pop rivet guns and compressors• tools for aluminium: |

- assorted air tools
 - assorted electric tools
 - compressor
 - rivet gun
 - metal press and dies
- 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

Unit Mapping Information

Supersedes and is equivalent to LMFGG2001C Use glass and glazing sector hand and power tools.

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 MSFGG2001 Use glass and glazing sector hand and power tools

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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
- Carry out correct procedures prior to, during and after use of hand and power tools
- Identify six (6) commonly used glass and glazing sector hand and power tools
- Indicate hand and power tool applications and limitations
- Effectively and safely use hand and power tools in the workplace environment
- Maintain and safely store hand and power tools
- 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 and standards within the workplace
- Workplace safety requirements and WHS legislation
- Function and purpose of hand and power tools used in the workplace
- Characteristics of glass and/or aluminium, and glass and/or aluminium products and defects, including hazards and handling requirements
- Industry standard cross-sections and lengths
- Storage systems and labelling
- Procedures for the recording, reporting and maintenance of workplace records and information

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 glass and glazing sector and aluminium hand and power tools, materials used in the manufacturing and/or processing of glass and glazing and aluminium products and operating procedures.

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