



Australian Government

MSFGG2006 Move single glass sheets by mechanical means

Release: 1

MSFGG2006 Move single glass sheets by mechanical means

Modification History

Release 1 - New unit of competency

Application

This unit of competency covers moving single sheets of flat glass by mechanical means individually or in a team environment in workplaces which are involved in the manufacture, processing and/or installation of sheet glass.

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.

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|-----------------------------------|--|
| 1 Prepare for glass moving | <div style="margin-left: 20px;">1.1 Work requirements in the form of type and quantity of glass to be relocated are identified from work instructions</div> <div style="margin-left: 20px;">1.2 Work health and safety (WHS) requirements for movement of glass sheets by mechanical means, including personal protective equipment, are observed throughout the work</div> <div style="margin-left: 20px;">1.3 Glass sheets to be moved are identified and weight is estimated or calculated and safe movement requirements applied</div> <div style="margin-left: 20px;">1.4 Appropriate mechanical handling equipment, tools and equipment are identified</div> <div style="margin-left: 20px;">1.5 Risks arising from the required lifting to self, others, material and equipment are identified, load carrying, set down or movement of the glass</div> |
|-----------------------------------|--|

- 1.6 Equipment and controls, including emergency stops and guards, are identified and checked for safe operation with any damaged or worn parts reported to appropriate personnel
 - 1.7 Glass is checked for imperfections and damage prior to movement
- 2 Plan glass movement
 - 2.1 Locations for glass storage are identified and routes to be followed determined
 - 2.2 Required clearances are compared to available space and adjustments made
 - 2.3 Process for relocating glass is planned, including predicting and planning for potential difficulties
 - 2.4 Proposed process is checked against advisory standards and workplace procedures for compliance
- 3 Relocate glass
 - 3.1 Equipment is operated in accordance with approved advisory standards, manufacturer instructions, workplace procedures and WHS requirements
 - 3.2 Planned process and route are followed and glass is relocated without damage to material, personnel or equipment
 - 3.3 Glass is labelled and stored following workplace procedures ensuring there are no projections
 - 3.4 Relocation is checked to see that it meets work requirements, and any differences reported
- 4 Complete work
 - 4.1 Waste and scrap material are removed for disposal or recycling, as required
 - 4.2 Work area is cleaned and rubbish disposed of, as appropriate
 - 4.3 Handling equipment is cleaned, maintained and stored according to workplace procedures
 - 4.4 Workplace documentation is completed, as required

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 |
| Glass includes: | <ul style="list-style-type: none">• annealed• laminated• toughened• tinted• obscured• heat reflecting• mirrors |
| Safe movement requirements include: | <ul style="list-style-type: none">• complying with relevant WHS regulations• determining the safe weight load limit (WLL)• using safe working load (SWL) limit tables |
| Mechanical handling equipment includes: | <ul style="list-style-type: none">• gantry cranes up to 4.9 SWL• scissor or vacuum grabs |
| Tools and equipment include: | <ul style="list-style-type: none">• air and tilt tables• A-frames and stillage racks |
| Personal protective equipment includes: | <ul style="list-style-type: none">• that prescribed under legislation, regulation and enterprise policies and practices:<ul style="list-style-type: none">• gauntlets• gloves |

Information and procedures include:

- safety glasses
- hard hats
- safety footwear
- aprons and overalls
- 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 LMFGG2006C Move single glass sheets by mechanical means.

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 MSFGG2006 Move single glass sheets by mechanical means

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
- Use correct personal protective safety apparel and safety regulations for overhead lifting
- Safely use gantry cranes up to 4.9 SWL, including relevant standards and regulations
- Safely use vacuum rigs or scissor grabs for lifting single glass sheets
- Follow pre-safety and inspection procedures, calculate weight, and safely load and secure glass
- Relocate single sheets of glass by vacuum or scissor grabs up to 4.5 m² (170 kg)
- 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

- Qualities and characteristics of glass, including hazards and handling requirements, and the behaviour of glass sheets when lifted and moved
- Work flow requirements in relation to the movement of glass by mechanical means
- Principles, requirements and techniques of moving glass sheets by mechanical means
- Workplace safety system requirements related to the moving of glass sheets by mechanical means
- Capabilities, operating processes and procedures of mechanical handling equipment

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 mechanical glass handling equipment, glass sheet to be relocated, workplace operating procedures, personal protection equipment and an appropriate work area.

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