



Australian Government

MSFGG3003 Move block and bulk glass sheet by mechanical means

Release: 1

MSFGG3003 Move block and bulk glass sheet by mechanical means

Modification History

Release 1 - New unit of competency

Application

This unit of competency covers moving block/bulk flat glass by mechanical means in workplaces which are involved in the manufacture, processing and/or installation of sheet glass.

It may include meeting local licensing requirements for use of slings and chains where these apply.

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 the task | 1.1 | Work requirements in the form of type and quantity of glass to be relocated are identified from work instructions |
| | | 1.2 | Work health and safety(WHS) requirements for movement of bulk/block glass sheet by mechanical means, including personal protective equipment, are observed throughout the work |
| | | 1.3 | Blocks of glass sheet to be moved are identified and weight estimated or calculated |
| | | 1.4 | Appropriate mechanical handling equipment is identified |
| | | 1.5 | Risks to self, others, material and equipment are identified arising from the required lifting, load carrying, set down or movement of the glass |

- 1.6 Equipment and controls, including emergency stops and guards, are identified and checked for safe operation, and 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 relocated without damage to material and equipment or injury
 - 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 are 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 |
| Block/bulk glass sheets include: | <ul style="list-style-type: none">• end caps• cased or factory run size (FRS) blocks• large glass panels• annealed or laminated glass |
| Mechanical handling equipment include: | <ul style="list-style-type: none">• gantry cranes up to 4.9 safe working load (SWL)• block grabs• slings and chains (AS 1418 Set:2009 Cranes, hoists and winches Set, and licensing requirements for use of slings and chains should be considered) |
| Personal protective equipment includes: | <ul style="list-style-type: none">• that prescribed under legislation, regulation and enterprise policies and practices for overhead lifting:<ul style="list-style-type: none">• gauntlets• gloves• safety glasses• safety footwear• hard hats• aprons and overalls• Bolero and harness |

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 LMFGG3003C Move block/bulk glass sheet 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 MSFGG3003 Move block and bulk glass sheet 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 personal protective safety apparel and follow safety regulations for overhead lifting
- Safely use gantry cranes up to 4.9 SWL, complying with relevant standards and regulations
- Use block grabs, slings and/or chains for lifting blocks or end caps of glass sheets
- Calculate the weight of glass and safely load and secure glass
- Relocate blocks and/or end caps of glass sheets by grabs, slings and/or chains up to 2 tonnes, complying with AS 1418 Set:2009 Cranes, hoists and winches Set and licensing requirements, where applicable
- 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 block glass sheet when lifted and moved
- Work flow requirements in relation to the movement of glass by mechanical means
- Principles, requirements and techniques of moving block glass sheet by mechanical means
- Workplace safety system requirements related to the moving of block glass 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.

Links

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