



Australian Government

MSFGG3037 Install structural glazing products

Release: 1

MSFGG3037 Install structural glazing products

Modification History

Release 1. Supersedes and is not equivalent to MSFGG3018 Prepare and install architectural engineered glazing.

Application

This unit describes the skills and knowledge required to identify work requirements, prepare tools and materials, and install structural glazing products.

This unit applies to individuals installing structural glazing products. They may or may not also fabricate the products.

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

N/A

Unit Sector

Glass and Glazing

Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Identify work requirements	1.1 Read work documentation and identify installation requirements 1.2 Identify and follow work health and safety requirements 1.3 Determine required installation methods and materials, and estimate quantities 1.4 Plan a logical work sequence suited to the job and workplace procedures
2. Prepare for installation	2.1 Select and check tools and equipment for suitability, serviceability and safety prior to use 2.2 Select and confirm type and quantity of components and materials

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	against specifications 2.3 Measure and prepare components and materials using required tools in accordance with specifications
3. Identify site conditions and constraints	3.1 Consult customer and obtain permission prior to site inspection 3.2 Identify site safety hazards and take corrective action to reduce injury to self and others 3.3 Identify other on-site characteristics for their impact on the installation process 3.4 Take accurate measurements and confirm against job specification 3.5 Apply covering material to protect existing fixtures and fittings in accordance with workplace procedures
4. Prepare frame/opening and materials	4.1 Remove glass in accordance with safety and work requirements 4.2 Assess frame and/or opening condition to ensure suitability for re-glazing in accordance with customer requirements and Australian Standards 4.3 Report defective frames for repair or replacement in accordance with workplace procedures 4.4 Prepare frame and/or opening to receive glass in accordance with Australian Standards 4.5 Prepare fixing and sealing materials by mixing or cutting to length in accordance with job requirements
5. Fit glass	5.1 Fix glass using the selected method and in accordance with industry procedures and Australian Standards 5.2 Use solvents and sealants in accordance with manufacturer recommendations and Australian Standards 5.3 Remove excess sealing material and clean glass and frame after fixing
6. Complete work	6.1 Check completed installation for compliance with customer requirements, specifications and Australian Standards 6.2 Clean and store tools, equipment and materials in accordance with workplace procedures 6.3 Clean work area and leave in a safe condition and dispose of waste or recycle in accordance with workplace protocols

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	6.4 Accurately complete required workplace documentation

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Unit Mapping Information

No equivalent unit.

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 MSFGG3037 Install structural glazing products

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Performance Evidence

There must be evidence the candidate has completed the tasks outlined in the elements and performance criteria of this unit, and:

- completed 3 of the following structural glazing installations in accordance with work, safety and Australian Standards requirements:
 - balustrade
 - curtain walls
 - glass floor glazing
 - overhead glazing
 - suspended or spider assembly
 - toughened assembly.
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Knowledge Evidence

There must be evidence the candidate has knowledge of:

- Australian Standards, their purpose and key provisions:
 - AS/NZ1288
 - AS/NZS 4667
 - AS 1288
 - AS4285
- mathematical procedures for estimation and measurement
- organisational customer communication standards and protocols
- types, characteristics, uses and limitations of structural glazing products, including:
 - aluminium glazing systems, including planar assemblies
 - balustrading
 - curtain wall systems
 - glass floor glazing
 - panel wall systems (hung and stacked)
 - overhead glazing
 - spider assemblies
 - toughened assemblies

- structural glazing product installation:
 - workplace safety system requirements
 - work flow requirements
 - qualities and characteristics of structural glass, acrylic and framing materials
 - qualities, characteristics, uses and limitations of component hardware:
 - concealed overhead closer
 - guides
 - hinges
 - locks
 - pivots
 - weather seals
 - wheels
 - stays
 - site characteristics that may impact installation and how to respond
 - installation techniques, the types of problems that may occur and how to avoid and respond
 - fabrication methods for different products and how this impacts installation
 - basic fabrication techniques for on-site product adjustments
 - quality assurance
- types, characteristics, safe use, maintenance and limitations of installation tools and equipment
- uses and limitations of adhesives and sealants in structural glazing installations
- role of engineering consultancy in structural glazing and how this impacts the installation role
- documentation requirements for installation work.
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Assessment Conditions

Skills must have been demonstrated in the workplace or in a simulated environment that reflects workplace conditions and contingencies. The following conditions must be met for this unit:

- use of suitable facilities, equipment and resources, including:
 - equipment, tools and materials to complete tasks in the Performance Evidence
 - work orders
 - workplace procedures.

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

Links

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