



Australian Government

MSFGG4017 Apply standards and codes of practice for the glass and glazing industry

Release: 1

MSFGG4017 Apply standards and codes of practice for the glass and glazing industry

Modification History

Release 1. Supersedes and is equivalent to MSFGG4009 Apply standards and codes of practice for the glass industry. Changes to title, application, elements, performance criteria and assessment requirements.

Application

This unit describes the skills and knowledge required to evaluate complex glass and glazing requirements, determine the codes of practice and standards that apply and integrate their requirements into work processes. These include relevant requirements of the National Construction Code and Australian Standards, including AS1288 and in particular, Section 6 Sloped overhead glazing, Section 7 Balustrades and Section 9 Framed, unframed and partly framed glass assemblies. (All Australian Standards cited in this unit and its assessment requirements are current at the time of publication. If these are revised, the superseding standards must be used.)

This unit applies to experienced workers who interpret and use advanced technical information to develop solutions to potentially complex glass and glazing requirements. They commonly work independently and typically solve complex problems that require theoretical knowledge and experience about the specification, manufacture and installation of a wide range of glass and glazing products. Job roles commonly involve leadership and supervisory responsibilities.

At the time of this unit's release, the work described in this unit does not require licensing or certification, but state or territory authorities should be consulted to determine the current status. Workers on construction sites are required by law to complete induction training. They must also comply with relevant legislation, Australian Standards, codes and manufacturers' installation instructions.

Competency Field

Glass and glazing

Elements and Performance Criteria

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Evaluate the glass and glazing work requirements	1.1 Identify glass and glazing job requirements from the client's brief and specialist technical specifications

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
	1.2 Record the job requirements according to workplace procedures 1.3 Determine the technical feasibility of the job requirements and the applicable standards and codes of practice
2. Determine application of glass and glazing standards	2.1 Identify products and/or types of glass potentially suitable for job requirements 2.2 Determine technical specifications of potentially suitable products and/or types of glass from suppliers and other sources 2.3 Assess potentially suitable products for conformance to applicable standards and codes of practice 2.4 Identify any need for specialist technical advice and organise to obtain it according to workplace procedures 2.5 Develop an optimal solution that meets job requirements and conforms to applicable standards and codes of practice 2.6 Communicate installation instructions to clients, building professionals and other relevant parties to enable installation to comply with applicable standards and codes of practice
3. Develop documentation	3.1 Prepare detailed documentation for the solution according to workplace procedures 3.2 Identify and develop documentation required by external personnel based on the scope of the project 3.3 Distribute documentation to internal and external personnel within required timeframes

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

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

Unit Mapping Information

Supersedes and is equivalent to MSFGG4009 Apply standards and codes of practice for the glass industry.

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 MSFGG4017 Apply standards and codes of practice for the glass and glazing industry

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Performance Evidence

There must be evidence the candidate has completed the tasks in the elements and performance criteria of this unit of competency and has demonstrated the ability to:

- assess requirements and develop documentation that complies with applicable codes of practice and all Australian Standards for one or more jobs that individually or cumulatively involve glass and glazing for:
 - a stairway
 - a balustrade
 - a sloped or overhead glass installation
 - a 5-star rated building
 - a fire-rated application
 - a curtain wall and/or facade
 - a partition.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- key aspects of:
 - AS 1288: sections 6, 7 and 9
 - AS/NZS 2208: all sections
 - AS/NZS 1170: all sections
 - AS/NZS 4667: all sections
 - AS/NZS 4668: all sections
 - AS1428.1 (design for access and mobility)
 - National Construction Code (NCC) and state and territory requirements relating to glass and glazing in buildings
- workplace safety system requirements related to the handling and installation of glass and glazing products that affect the development of specifications
- types, characteristics, uses and limitations of types of glass potentially suitable for complex glass and glazing requirements, including relating to:
 - aspect ratios
 - energy efficiency

- installation methods
- tolerances
- wind loadings
- current and emerging products, techniques and applications in glass and glazing, including those relating to energy efficiency, double glazing, thermally broken frames, acoustics and types of glass
- sources of specialist glass and glazing technical advice
- the range of people and parties potentially involved in glass and glazing work and typical interactions required, including architects, builders, clients, engineers, product developers and/or suppliers and logistics personnel
- the most common issues that can arise when applying standards and codes of practice for the glass industry and how to avoid and respond to them
- workplace policies and procedures relevant to their job role and responsibilities including for:
 - applying standards and codes of practice for the glass industry
 - communication and reporting
 - environmental protection and sustainability, including noise and waste
 - quality assurance
 - work health and safety, including personal protective equipment
 - work planning
 - how to identify if standards and codes of practice for the glass industry are applied correctly.

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:
 - details of glass and glazing work requirements as specified in the performance evidence
 - AS/NZS documentation as specified in the knowledge evidence
 - workplace procedures.

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

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