



Australian Government

**Assessment Requirements for MSFGG3016
Fabricate and install residential windows
and doors**

Release: 2

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Modification History

Release 2 - Update of Australian Standards codes. Statement regarding currency of Australian Standards included in Range of Conditions and Performance Evidence.

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
- Measure for the installation of windows and doors and plan work from product specification data sheets and/or specified software programs
- Identify and select product materials, including selection of mullions and transoms in relation to wind loading
- Fabricate frame and sash components from metal and uPVC, including cutting, tooling, routing, milling, drilling and/or crimping
- Identify, select and install component hardware, including weather seals, wheels, stays, hinges, guides and/or locks
- Apply the WERS
- Select and cut glass in accordance with AS 1288:2006 Glass in buildings - Selection and installation and AS/NZS 4667:2000 Quality requirements for cut-to-size and processed glass
- Assemble frames, including glass, gaskets, tapes, sealants, adhesives, fasteners, reveal linings and flashings in accordance with AS 2047:2014 Windows in buildings - Selection and installation (Section 6)
- Label frames in accordance with AS 2047:2014 Windows in buildings - Selection and installation (Section 8) and AS/NZS 4668:2000 Glossary of terms used in the glass and glazing industry
 - *Note, wherever Australia Standards are listed they apply at the time of publication, but the most current version (including amendments) or replacement versions are to be used.*
- Install residential windows and doors
- Calculate cost of residential windows and doors
- 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

- Work flow requirements in relation to the fabrication and installation of windows and doors
- Characteristics of glass and framing materials used and uses of products produced
- Workplace safety system requirements related to the fabrication and installation of windows and doors
- Correct identification of equipment, processes and procedures
- AS 1288:2006 Glass in buildings - Selection and installation
- AS/NZS 4667:2000 Quality requirements for cut-to-size and processed glass
- AS 2047:2014 Windows in buildings - Selection and installation (Section 6)
- AS 2047:2014 Windows in buildings - Selection and installation (Section 8)
- AS/NZS 4668:2000 Glossary of terms used in the glass and glazing industry
 - *Note, wherever Australia Standards are listed they apply at the time of publication, but the most current version (including amendments) or replacement versions are to be used.*

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 aluminium or steel framing material, timber framing material, uPVC framing material, door or window glass, fittings and fixing/fasteners, workplace operating procedures, personal protective equipment, and suitable fabrication and installation locations.

Links

Companion Volume implementation guides are found in VETNet -
<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=0601ab95-583a-4e93-b2d4-cfb27b03ed73>