



Australian Government

Assessment Requirements for MSFGG4004 Perform laser measurement and levelling for glass windows and doors in buildings

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

- Accurately select, set and use laser levelling devices to obtain and interpret specified measurements
- Maintain and store laser levelling devices
- Read, interpret and follow information on standard operating procedures, manufacturer recommendations, drawings and other applicable reference documents
- Set up levelling equipment and take levelling measurements and perform necessary calculations
- Confirm accuracy of the readings taken, including set up and movement of laser levelling device in two locations
- Level and align a range of glass window and door components for installation in buildings
- Confirm work requirements and specifications and the report work outcomes and problems 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

- AS 2047-2014 Windows in buildings - Selection and Installation
- AS1288-2006 Glass in buildings - Selection and Installation
 - *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.*
- Terminology and concepts relating to electrical/electronic measurement
- Specifications of a range of commonly used laser levelling devices and their features for application in the glass industry
- Settings and the correct scale for each setting on laser levelling devices and procedures for obtaining accurate measurements
- Levelling device types, characteristics, technical capabilities and limitations
- Maintenance and storage requirements for a range of laser levelling devices
- Principles of levelling and alignment and numerical operations, geometry and calculations/formulae for levelling
- Effects on installed glass window and door components if not correctly levelled and aligned
- Techniques, tools, equipment and procedures to carry out levelling and installation of glass components in buildings
- Hazards and control measures associated with levelling and alignment and relevant safe work practices and procedures
- Use and application of personal protective equipment
- Relevant environmental, WHS legislation and regulations
- Technical drawings and manufacturers manuals
- Shimming and packing materials
- Glass product specifications and tolerances
- Hierarchy of control and basis of control for glass plant/s
- Communication protocols (e.g. radio, phone, computer and paper, permissions/authorities)

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 laser levelling equipment, glass window and door components, work instructions, manufacturer documentation and organisational guidelines.

Links

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