



Australian Government

Assessment Requirements for MSFGG4012 Perform laser measurement and levelling for glass windows and doors in buildings

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to MSFGG4004 Perform laser measurement and levelling for glass windows and doors in buildings.

Performance Evidence

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

- levelled and aligned the following, either sub-frame or sub-channel, for installation in buildings:
 - door
 - shopfront
 - balustrade
- confirmed accuracy of the readings taken, including set up and movement of laser levelling device in two locations.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- key aspects of state or territory work health and safety legislation and regulations, including individual rights and obligations
- role of a laser safety officer
- key aspects of the following Australian Standards:
 - AS 2047-2014 Windows in buildings - Selection and Installation
- hazards and control measures associated with levelling and alignment
- workplace safety system for laser measurement and levelling, including personal protective equipment
- documentation that informs planning for laser measurement and levelling and how to interpret technical drawings
- effects on installed glass window and door components if not correctly levelled and aligned
- principles of levelling and alignment and numerical operations, geometry and calculations and/or formulae for levelling, including Reduced Level (RL)
- levelling device types, characteristics, technical capabilities and limitations, including:
 - rotating laser level
 - line and dot level
 - dual beam level

- laser square level
- glass product specifications and tolerances plus or minus 1mm and size over a distance
- hierarchy of control and basis of control for glass plant/s
- communication protocols for radio, phone, computer and paper, including permissions and/or authorities
- role and use of manufacturer manuals
- types, characteristics, uses and limitations of shimming and packing materials
- settings and the correct scale for each setting on laser levelling devices and procedures for obtaining accurate measurements
- techniques, tools, equipment and procedures to carry out levelling and installation of glass components in buildings, including:
 - use of jacking bolts and shimming material
 - use of levelling equipment
- maintenance and storage requirements for laser levelling devices
- procedures for the recording, reporting and maintenance of workplace records and information.

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:
 - laser levelling equipment
 - glass window and door components
 - manufacturer documentation
 - work orders
 - workplace procedures.

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

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0601ab95-583a-4e93-b2d4-cfb27b03ed73>