



Australian Government

MSFGG2017 Fabricate and install insect and security screens

Release: 1

MSFGG2017 Fabricate and install insect and security screens

Modification History

Release 1 New unit of competency.

Note: MSFGG2010 Fabricate and install insect and security screens was superseded by MSFSS3005 Assemble non-security and security screens and grilles in 2020, but a subsequent review found that the content of MSFGG2010 should be restored to the qualification. This unit, MSFGG2017, has the same title and content (with minor updates) as MSFGG2010. MSFGG2017 is a new unit and does not supersede any other unit.

Application

This unit describes the skills and knowledge required to measure, fabricate and install insect or security screens for doors or windows using aluminium.

No licensing or certification requirements exist at the time of publication. Relevant legislation, industry standards and codes of practice within Australia must be applied.

Competency Field

Unit Sector

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 Plan for work	1.1 Determine specifications of insect or security screen from work instructions, including the identification of its pattern or plan 1.2 Identify and apply work health and safety requirements relevant to fabrication and installation of aluminium screens, including personal protective equipment 1.3 Identify fabrication and installation processes to meet specifications 1.4 Calculate quantities of materials required from plans, work instructions and measurement of screen opening in accordance with Australian Standards and industry practice 1.5 Prepare cutting lists from plans, work instructions and measurements of opening to meet specifications and minimise waste 1.6 Select fittings, fixings and joining devices or materials in accordance

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
	with specifications or type of materials to be joined or fixed
2 Prepare for work	2.1 Determine logical work sequence to suit the work and workplace procedures 2.2 Assemble tools, equipment and materials and check they are appropriate for the work, serviceable and in a safe condition 2.3 Check size, quantity, finish and profile of components against specifications
3 Fabricate and install insect or security screen	3.1 Measure and mark materials to cutting list requirements and to achieve most economical use of materials 3.2 Cut and stamp materials to cutting list requirements and in accordance with workplace procedures or industry practice 3.3 Assemble components of insect or security screen in accordance with workplace procedures or industry practice 3.4 Attach fittings to screen in accordance with workplace procedures or industry practice 3.5 Install insect or security screen in opening in accordance with recognised industry standards
4 Complete work	4.1 Inspect installed insect or security screen to identify any quality defects 4.2 Repair, refabricate or reinstall insect or security screen to rectify defects 4.3 Collect and store any material which can be reused 4.4 Remove waste and scrap materials and process for disposal or recycling in accordance with workplace procedures 4.5 Clean work area and dispose of rubbish 4.6 Clean and store tools, equipment and unused material in accordance with workplace procedures 4.7 Complete workplace documentation in accordance with workplace procedures

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 MSFGG2017 Fabricate and install insect and security screens

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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 demonstrated the ability to:

- measure, fabricate and install one hinged aluminium screen door, one sliding aluminium screen door and one aluminium window screen
- safely use at least three of the following:
- drop saw
- up-cut saw
- stamping and notching tools
- copy routers
- end millers
- crimpers
- electric or pneumatic powered drills and screwdrivers
- pop rivet guns
- welding machine.
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Knowledge Evidence

There must be evidence the candidate has knowledge of:

- workflow requirements in relation to the fabrication and installation of insect and security screens
- characteristics and application of materials and fittings used in fabrication and installation of screens including:
- extruded door framing
- corner stakes
- interlocks
- fly mesh
- heavy-duty security mesh
- emergency escape security screen

- fittings and fixing/fasteners (screws and pop rivets)
- anti-jemmy protection hardware
- hinges
- wheels
- lock mechanisms that comply with Australian Standards
- door closures
- lock guards
- workplace safety system requirements related to fabricating and installing aluminium insect and security screens
- relevant Australian Standards relating to security screen doors and security window grilles.

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 those specified in the performance evidence
- modelling of industry operating conditions.

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

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