



Australian Government

MSFSS3005 Assemble non-security and security screens and grilles

Release: 1

MSFSS3005 Assemble non-security and security screens and grilles

Modification History

Release 1. No equivalent unit. Supersedes but is not equivalent to MSFSGG2010 Fabricate and install insect and security screens

Application

This unit of competency describes the skills and knowledge required to measure and assemble non-security and security screens and window grilles and their components. It involves following workplace procedures that comply with the requirements of industry and Australian standards.

The unit applies to those assembling non-security and security screens and grilles for residential and commercial environments. The screens and grilles may be for hinged and sliding door and window openings, and for emergency egress.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Not applicable.

Unit Sector

Non-security and security screens and grilles

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. Prepare to assemble non-security and security screens and grilles	1.1	Identify job requirements from work instructions and select work method for assembling screens and grilles
	1.2	Calculate quantity of required materials and prepare cutting list from plans, work instructions and measurements of opening to suit type of screen or grille to be installed
	1.3	Select fittings, fixings, joining devices and materials, and tools and equipment to meet job requirements
	1.4	Check safe and effective operation of tools and equipment

Elements Elements describe the essential outcomes.	Performance Criteria Performance criteria describe the performance needed to demonstrate achievement of the element.	
		according to manufacturer specifications
	1.5	Plan work sequence to suit job requirements and workplace procedures
	1.6	Check size, quantity, finish and profile of screen and grille components against work order
2. Assemble non-security and security screens and grilles	2.1	Measure and mark materials according to cutting list requirements and to maximise economical use
	2.2	Cut materials according to cutting list requirements and workplace procedures
	2.3	Assemble components of screens and grilles in line with work health and safety (WHS) requirements and job requirements, industry standards and workplace procedures
	2.4	Fasten fittings to screens and grilles according to workplace procedures
	2.5	Identify and report non-routine problems to designated personnel according to workplace procedures
3. Finalise assembly	3.1	Check that assembled product complies with quality and work instruction requirements, and rectify identified deficiencies within scope of own role
	3.2	Clean work area and surfaces, and dispose of waste safely and sustainably according to workplace procedures
	3.3	Identify and store surplus unused materials for re-use and recycling according to workplace procedures
	3.4	Check tools and equipment, and tag and report faulty items according to workplace procedures
	3.5	Clean and store remaining tools and equipment according to workplace procedures
	3.6	Legibly complete and process required workplace documentation according to workplace requirements

Foundation Skills

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

Numeracy skills to:	• interpret, discuss and use mathematical information in familiar work orders, cutting lists, and basic plans, drawings and designs • use mathematical ideas and techniques to complete measurements, calculate area and estimate material requirements
Reading skills to:	• interpret routine workplace documentation, including: • WHS requirements • workplace assembly procedures • routine work instructions, including work orders, cutting lists, and basic plans, drawings and designs

Unit Mapping Information

Release 1. No equivalent unit. Supersedes but is not equivalent to MSFSGG2010 Fabricate and install insect and security screens

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 MSFSS3005 Assemble non-security and security screens and grilles

Modification History

Release 1. No equivalent unit. Supersedes but is not equivalent to MSFSGG2010 Fabricate and install insect and security screens

Performance Evidence

There must be evidence the candidate has completed the tasks outlined in the elements, performance criteria, and foundation skills of this unit, which must include the ability to:

- prepare and assemble the following in line the requirements of industry and Australian standards and workplace procedures:
 - one hinged security screen door in a residential or commercial building
 - one sliding security screen door in a residential or commercial building
 - one fixed window grille above ground level in a residential or commercial building, demonstrating the safe and correct use of safety and lifting equipment
 - one emergency egress security screen in a residential building
 - one non-security screen in any opening or building type.

In assembling the suite of non-security and security screens and grilles, the candidate must also demonstrate the ability to:

- interpret work order and locate and use materials, tools and equipment required for the assembly
- measure for windows and doors, and identify and select product materials to be used
- correctly select component hardware and fittings required for assembly:
 - door closures
 - hinges
 - lock guards
 - guides and lock mechanisms that comply with Australian Standards
 - wheels
- assemble screen and grille frame and components, optimising materials, and cutting, tooling, drilling and crimping in compliance with Australian standards
- apply safe lifting and handling procedures
- follow work instructions and safe operating procedures and inspection procedures to:
 - minimise risk of injury to self and others
 - prevent damage to site, tools equipment and products
 - maintain required production output and product quality
 - use hand and power tools safely
 - use personal protective equipment (PPE)

- use and dispose of waste sustainably
- identify and resolve routine problems and faults encountered
- avoid backtracking, work flow interruptions and wastage

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- features of assembly work orders relating to the performance evidence, and how to identify and interpret key information
- work instruction requirements, and industry-accepted quality indicators and requirements, relating to the assembly described in performance evidence:
 - key requirements of industry and Australian standards
 - work flow requirements
 - safety considerations and potential dangers associated with incorrect assembly
 - pattern and plan to be followed in assembly
- operation of range of non-security and security screens and grilles in performance evidence
- work health and safety (WHS) procedures, practices and regulations specific to assembly described in performance evidence:
 - controlling hazards and risks
 - eliminating hazardous materials and substance
 - using personal protective equipment:
 - aprons and overalls
 - gauntlets
 - gloves
 - hard hats
 - safety footwear
 - safety glasses
- workplace procedures relating to:
 - identifying equipment, processes and procedures to use when assembling non-security and security screens and grilles
 - calculating quantities of required materials:
 - from plans and work instructions
 - by measuring screen opening
 - manual handling, including lifting and carrying
 - safely assembling screens and grilles
 - reporting non-routine problems
 - tagging and reporting faulty tools and equipment
 - disposing of waste safely and in an environmentally sustainable manner
 - recycling and re-use guidelines
 - cleaning and storing tools and equipment

- storing surplus unused items
- recording and reporting assembly information
- techniques for assembling non-security and security screens and grilles described in performance evidence that include processes that:
 - conform to quality requirements
 - comply with supplier instructions and manufacturer specifications
 - maximise the appearance of the finished work
 - provide for economical use of materials and labour
- types, characteristics, terminology of, uses, maintenance and limitations of the following items required for the assembly described in performance evidence:
 - framing material and in-fill material
 - tools and equipment:
 - assembly benches
 - bolt cutters or mechanical shears
 - copy routers
 - crimpers
 - drop and up-cut saws
 - electric and pneumatic powered drills and screwdrivers
 - end millers
 - fly screen spline rollers
 - knives
 - pneumatic and manual presses
 - pop rivet guns
 - soft rubber mallets
 - stamping and notching tools
 - materials:
 - anti-jemmy protection hardware
 - corner stakes
 - extruded door framing
 - fittings, fixing and fasteners, including screws and pop rivets
 - fly mesh
 - heavy-duty security mesh
 - interlocks
- uses of non-security and security screen and grille products produced

Assessment Conditions

Assessment must occur in the workplace, or in a simulated environment that reflects workplace conditions and contingencies.

Access is required to tools, materials, equipment and specifications for the assembly work described in the performance evidence above, including:

- non-security and security screens, grilles and work areas specified in the performance evidence requiring assembly
- PPE applicable to job requirements
- WHS documentation specific to the assembly
- materials required in the assembly of screens and grilles:
 - aluminium or other framing material
 - aluminium or other sheeting
 - fittings, fixing and fasteners
- tools and equipment specified in the knowledge evidence
- workplace documentation required for each assembly, including:
 - work orders, customer orders, job cards and work quotations
 - workplace procedures specified in the knowledge evidence
 - supplier instructions and manufacturer specifications

Links

Companion Volume implementation guides are found in VETNet -

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