



Australian Government

MSFSS3002 Apply patterns and designs to security screens and grilles

Release: 1

MSFSS3002 Apply patterns and designs to security screens and grilles

Modification History

Release 1 - New unit of competency

Application

This unit of competency covers producing repeatable designs to security screens and grilles through the use of patterns. It does not involve the formulation of the design but may require design adjustment to fit the particular job task.

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

Pre-requisite Unit

Competency Field

Unit Sector

Security Screens and Grilles

Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

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|---|----------------------------|-----|--|
| 1 | Identify work requirements | 1.1 | Applicable work health and safety (WHS), legislative and organisational requirements relevant to machine material are verified and complied with |
| | | 1.2 | Work order is reviewed, confirmed and clarified with appropriate personnel |
| | | 1.3 | Design is interpreted to determine work specifications |
| | | 1.4 | Instructions for sequencing of work, particular measurements or adjustments are interpreted |
| | | 1.5 | Work sequence is planned, including quality checkpoints |
| 2 | Prepare for work | 2.1 | Suitable work area is selected for the tasks |
| | | 2.2 | Materials are selected to match customer requirements, |

- suitability for purpose and the work instructions
- 2.3 Potential hazards are identified from observation of the tools, equipment, materials and workplace reference material
 - 2.4 Tools, equipment and materials are selected and checked prior to use to ensure that they are appropriate for the work, serviceable and in a safe condition
- 3 Complete construction
- 3.1 Patterns (where not already held of the design) are constructed following work instructions
 - 3.2 Patterns are adjusted where specific variation to the work design is required
 - 3.3 Work is checked against patterns and work sheets at the identified checkpoints
 - 3.4 Any non-conformity with the required quality standards is rectified
- 4 Finalise work
- 4.1 Completed work is checked against required quality standard
 - 4.2 Documentation or reporting is completed following workplace procedures
 - 4.3 Work area is cleaned, tools and equipment are returned to storage
 - 4.4 Unused materials are returned to storage and waste and scrap is dealt with following workplace procedures

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency. Detail on appropriate performance levels for each furnishing unit of competency in reading, writing, oral communication and numeracy utilising the Australian Core Skills Framework (ACSF) are provided in the Furnishing Training Package Implementation Guide.

Range of Conditions

Specifies different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included.

Range is restricted to essential operating conditions and any other variables essential to the work environment.

- Unit context includes:**
- WHS requirements, including legislation, building codes, material safety management systems, hazardous and dangerous goods codes, and local safe operating procedures or equivalent
 - work is carried out in accordance with legislative obligations, environmental legislation, relevant health regulations, manual handling procedures and organisation insurance requirements
 - work requires individuals to demonstrate some discretion, judgement and problem solving
- Work orders include:**
- instructions for the design, materials and security rating from the worksite and includes:
 - pattern
 - type
 - size
 - length
 - angle
 - quantity
- Appropriate personnel include:**
- supervisors
 - suppliers
 - clients
 - colleagues
 - managers
- Design includes:**
- the outline, sketch or plan to be constructed and includes:
 - specifications of security rating
 - shape
 - length
 - width
 - height
 - material composition of the project
- Pattern includes:**
- a model or form that can be used to guide the shape of the screen
- Personal protective equipment includes:**
- that prescribed under legislation, regulation and enterprise policies and practices
- Information and procedures include:**
- workplace procedures relating to the use of tools and equipment and personal protective equipment
 - work instructions, including job sheets, cutting lists, plans, drawings and designs
 - workplace procedures relating to reporting and

communication

- manufacturer specifications and operational procedures

Unit Mapping Information

Supersedes and is equivalent to LMFSS3002A Apply patterns and designs to security screens and grilles.

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 MSFSS3002 Apply patterns and designs to security screens and grilles

Modification History

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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
- Apply a pattern/design to at least two (2) security screen/grille products
- 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

- State or territory WHS legislation, regulations, standards and codes of practice relevant to the full range of processes for applying designs and patterns to security screen and grilles
- Organisational and site standards, requirements, policies and procedures for welding material
- Environmental protection requirements relating to the disposal of waste material
- Established communication channels and protocols
- Relevant problem identification and resolution
- Types of tools and equipment and procedures for their safe use, operation and maintenance
- Procedures for the recording, reporting and maintenance of workplace records and information
- Appropriate mathematical procedures for estimation and measurement
- The process for interpreting patterns
- Work flow in relation to screen design make-up

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 security screen or grille design specifications.

Links

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