



Australian Government

MSFSL3001 Apply product and material knowledge to leadlight and stained glass operations

Release: 1

MSFSL3001 Apply product and material knowledge to leadlight and stained glass operations

Modification History

Release 1 - New unit of competency

Application

This unit of competency covers applying product and material knowledge to leadlight and stained glass operations by identifying types of glass and other materials used in the leadlight and stained glass industry, their characteristics, properties, uses and limitations.

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

Pre-requisite Unit

Competency Field

Unit Sector

Leadlight and Stained Glass

Elements and Performance Criteria

Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1 Identify and respond to glass and material properties	1.1 Applicable work health and safety (WHS), legislative and organisational requirements relevant to leadlight and stained glass operations are verified and complied with 1.2 The types of glass and inherent characteristics are analysed to select the optimum glass for the product 1.3 The characteristics and properties of leadlight and stained glass are identified and considered 1.4 The properties and impacts of metals are identified and considered
2 Apply visual evaluation techniques to glass products	2.1 Correct visual procedures using natural and artificial light are followed

		2.2	Characteristics of glass styles are explained
		2.3	Glass is identified according to style
		2.4	The quality and style of glass are evaluated ensuring conditions for evaluation are as favourable as possible
3	Respond to the impact of glass properties	3.1	The cause and effects on the age of glass is considered and responded to
		3.2	The cause and effects on the glass of structural insecurity is considered and responded to
		3.3	The cause and effect of weather extremes are considered and responded to
		3.4	Records are maintained according to 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

- Types of glass include:**
- clear, translucent and opaque
 - coloured
 - stained
 - textured
- Metals used in leadlight and stained glass include:**
- lead
 - copper
- Glass faults include:**
- venting
 - cracking
 - fading
 - slumping
- Other faults include:**
- oxidation
 - breakage
 - structural insecurity
- Records and reports include:**
- product type
 - size
 - inspection
 - inspection outcomes
 - quality outcomes
 - storage locations
- Personal protective equipment includes:**
- that prescribed under legislation, regulation and enterprise policies and practices:
 - gauntlets
 - gloves
 - safety glasses
 - hard hats
 - safety footwear
 - aprons and overalls
- 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 LMFSL3001B Apply product and material knowledge to leadlight and stained glass operations.

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 MSFSL3001 Apply product and material knowledge to leadlight and stained glass operations

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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
- Identify leadlight and stained glass types, and apply their properties, uses and limitations to work tasks
- Determine the likely effects of a range of faults on leadlight and stained glass products
- Determine the likely impact of various environmental effects on leadlight and stained glass products
- Apply product and material knowledge in two (2) differing leadlight and stained glass operations
- Comply with legislation, regulations, standards, codes of practice and established safe practices and procedures for leadlight and stained glass operations
- 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 leadlight and stained glass operations
- Leadlight and stained glass construction and repair terminology and techniques
- Leadlight and stained glass types, characteristics, production methods and faults
- Organisational and site standards, requirements, policies and procedures for leadlight and stained glass operations

- Types of glass and other materials used in the leadlight and stained glass industry, their characteristics, properties, uses and limitations
- Environmental protection requirements relating to the disposal of waste material
- Established communication channels and protocols
- Relevant problem identification and resolution in the leadlight and stained glass environment
- Storage systems and labelling
- Procedures for the recording, reporting and maintenance of workplace records and information
- Appropriate mathematical procedures for estimation and measurement

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 examples of leadlight and stained glass, and samples of metals.

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