



Australian Government

Department of Education, Employment and Workplace Relations

LMFSL3001B Apply product and material knowledge to leadlight and stained glass operations

Release: 1

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Modification History

Updated format, revised Evidence Guide. Outcome equivalent.

Unit Descriptor

This unit of competency covers the skills and knowledge required to apply 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.

Application of the Unit

This unit supports the attainment of skills and knowledge required for competent workplace performance in leadlight and stained glass operations. The application of product and material knowledge to leadlight and stained glass operations applies to a workshop environment and involves application of skills and knowledge at a tradesperson level. These skills and knowledge are to be used within the scope of the individual's job and authority.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Not applicable.

Employability Skills Information

This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.

Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.

Elements and Performance Criteria

1	Identify and respond to glass and material properties	1.1	Applicable occupational health and safety (OHS) , 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	Identify basic faults	3.1	Basic glass faults are recognised
		3.2	Other faults are recognised
4	Respond to the impact of glass properties	4.1	The cause and effects on the age of glass is considered and responded to
		4.2	The cause and effects on the glass of structural insecurity is considered and responded to
		4.3	The cause and effect of weather extremes are considered and responded to
		4.4	Records are maintained

Required Skills and Knowledge

This section describes the skills and knowledge required for this unit.

Required skills include:

- collecting, organising and understanding materials, technology and information related to leadlight and stained glass components
- using communication skills to the level required to confirm work requirements and specifications; communicate effectively regarding work requirements with supervisors, other workers and customers; report work outcomes and problems; and relate to people from a range of social, cultural and ethnic backgrounds, and of varying physical and mental abilities
- using literacy skills to the level required to understand information related to work orders, including common industry terminology, plans and safety procedures; prepare reports; and interpret technical information and specifications
- maintaining quality records related to leadlight and stained glass components
- working with others and in a team by recognising dependencies and using cooperative approaches to optimise workflow and productivity
- identifying, anticipating and responding to faults in leadlight and stained glass components
- recognising and responding to circumstances outside instructions or personal competence
- planning and organising activities, including the preparation and layout of own worksite, and the obtaining and use of tools and materials to avoid any backtracking, work flow interruptions or wastage
- using mathematical ideas and techniques to correctly complete measurements, calculate area and volume, and estimate work and material requirements
- clarifying and confirming work instructions
- planning own work within the given task parameters
- accepting responsibility for given tasks
- setting, monitoring and satisfying personal work goals
- maintaining current knowledge of tools and materials
- maintaining current knowledge of leadlight and stained glass components
- seeking learning opportunities
- use the workplace technology related to the selection and assembly of leadlight and stained glass components, including computers, measuring devices and assembly systems

Required knowledge includes:

- state or territory OHS 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
- 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

Evidence Guide

The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.

Overview of assessment	Assessment processes and techniques must be culturally appropriate and appropriate to the language, literacy and numeracy capacity of the candidate and the work being performed.
Critical aspects for assessment and evidence required to demonstrate competency in this unit	Assessors must be satisfied that the candidate can competently and consistently: • read and interpret work/job specifications • identify a range of leadlight and stained glass types, and detail their uses and limitations • identify and explain the properties of leadlight and stained glass • explain the likely effects of a range of faults on leadlight and stained glass products • identify the likely impact of various environmental effects on leadlight and stained glass products • demonstrate the application of 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 • communicate effectively and work safely with others in the work area.
Context of, and specific resources for assessment	The application of competency is to be assessed in the workplace or realistically simulated workplace. Assessment is to occur under standard and authorised work practices, safety requirements and environmental constraints. Assessment of essential underpinning knowledge, other than confirmatory questions, will usually be conducted in an off-site context. Assessment is to comply with relevant regulatory or Australian Standard requirements. The following resources should be made available: • workplace location or simulated workplace • examples of leadlight and stained glass • samples of metals.

Method of assessment	Assessment must satisfy the endorsed Assessment Guidelines of the LMF02 Furnishing Industry Training Package. Assessment methods must confirm consistency and accuracy of performance (over time and in a range of workplace relevant contexts) together with application of underpinning knowledge. Assessment methods must be by direct observation of tasks and include questioning on underpinning knowledge to ensure its correct interpretation and application. Assessment may be applied under project-related conditions (real or simulated) and require evidence of process. Assessment must confirm a reasonable inference that competency is able not only to be satisfied under the particular circumstance, but is able to be transferred to other circumstances. Assessment may be in conjunction with assessment of other units of competency.
Guidance information for assessment	

Range Statement

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.

<i>OHS requirements</i> are to be in accordance with:	- Commonwealth, state or territory legislation and regulations, organisational safety policies and procedures. Requirements may include, but are not limited to: - the use of personal protective equipment and clothing - fire fighting equipment - first aid equipment - hazard and risk control and elimination of hazardous materials and substances - manual handling, including lifting and carrying
<i>Legislative requirements</i> are to be in	applicable legislation from all levels of government that affect organisational operation. Requirements

accordance with:	may include, but are not limited to: • award and enterprise agreements • industrial relations • Australian Standards • confidentiality and privacy • OHS requirements • the environment • equal opportunity • anti-discrimination • relevant industry codes of practice • duty of care and heritage
Organisational requirements may include, but are not limited to:	• legal, organisational and site guidelines, policies and procedures relating to own role and responsibility • quality assurance • procedural manuals • quality and continuous improvement processes and standards • OHS procedures • emergency and evacuation • ethical standards • recording and reporting • access and equity principles and practices • equipment use, maintenance and storage • environmental management (waste disposal, recycling and reuse guidelines)
Types of glass may include:	• clear, translucent and opaque • coloured • stained • textured
Metals used in leadlight and stained glass may include:	• lead • copper
Glass faults may include, but are not limited to:	• venting • cracking • fading • slumping
Other faults may include, but are not limited to:	• oxidation • breakage • structural insecurity
Records and reports may include, but are not limited to:	• the product type • size

	• inspection • inspection outcomes • quality outcomes • storage locations
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Unit Sector(s)

Leadlight and stained glass

Custom Content Section

Not applicable.