



Australian Government

Department of Education, Employment and Workplace Relations

LMFSL5005B Apply innovation in contemporary leadlight and stained glass

Release: 1

LMFSL5005B Apply innovation in contemporary leadlight and stained glass

Modification History

Updated format, revised Evidence Guide. Outcome equivalent.

Unit Descriptor

This unit of competency covers the skills and knowledge required to apply innovative techniques in the development of leadlight or stained glass works. It may include the adaptation of traditional techniques, such as leadlight and stained glass or other techniques, such as kiln-formed and laminated glass. The unit includes the need for research and analysis of ideas. It outlines the way glassworks may be produced through experimentation and subsequent refinement of ideas and techniques.

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 requirement to apply innovation in contemporary leadlight and stained glass applies to a workshop and on-site 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

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| 1 | Identify the potential or need for innovation | <p>1.1 Applicable <i>occupational health and safety (OHS), legislative and organisational requirements</i> relevant to leadlight and stained glass operations are verified and complied with</p> <p>1.2 Design or production elements are analysed to determine areas where <i>research</i> and experimentation may be appropriate</p> <p>1.3 The potential for the use of <i>new techniques</i> and <i>media</i> are assessed to maximise the effectiveness of leadlight and stained glass</p> |
| 2 | Conduct research | <p>2.1 Relevant research is undertaken to identify historical, cultural and other factors that might influence techniques or media</p> <p>2.2 Relevant ideas and approaches from other practitioners are researched, adapted and used, with consideration of <i>intellectual property, moral rights and copyright requirements</i></p> <p>2.3 Appropriate specialists who may be able to contribute to the overall realisation of innovative leadlight and stained glass are identified</p> <p>2.4 References are maintained in an accessible form to allow for use by other colleagues, as required</p> <p>2.5 Research material is used to adapt styles for integration into leadlight and stained glass production</p> |

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| 3 | Experiment with techniques and media | 3.1 | Trials are conducted to establish the best ways in which the desired scenic art effect can be achieved |
| | | 3.2 | Results of <i>experimentation</i> are assessed, balancing the need for creative effectiveness and cost practicality |
| | | 3.3 | New materials, tools, equipment or technology are selected, adapted or introduced for the achievement of different effects |
| | | 3.4 | Colleagues are consulted to provide information on the results of experimentation and to make appropriate decisions on new techniques and media |
| | | 3.5 | Specific resource requirements which arise from the use of different techniques are set up or coordinated in accordance with workplace requirements |

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 innovative and contemporary leadlight and stained glass
- 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 innovative and contemporary leadlight and stained glass
- 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 innovative and contemporary leadlight and stained glass
- 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, workflow 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 innovative and contemporary leadlight and stained glass
- seeking learning opportunities
- using the workplace technology related to innovative and contemporary leadlight and stained glass components, including computers, measuring devices and recording 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

- contemporary leadlight and stained glass construction terminology and techniques
- organisational and site standards, requirements, policies and procedures for preparation of **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
- appropriate innovative and experimental leadlight and stained glass production techniques in 2-dimensional (2D) and 3-dimensional (3D) **formats**
- colour theory, line, dimension, chiaroscuro, depth and their application to leadlight and stained glass
- painting and firing techniques
- the use and properties of a range of paints and media
- testing finished and unfinished materials used in innovative and contemporary leadlight and stained glass
- research skills and sources of information to inform research and experimentation on leadlight and stained glass
- costs and costing processes for leadlight and stained glass elements
- environmental protection requirements relating to the disposal of waste material
- established communication channels and protocols
- problem identification and resolution for innovative and contemporary leadlight and stained glass
- 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 design specifications • identify and explain the properties of leadlight and stained glass • conduct research into new and innovative applications of leadlight and stained glass • apply in-depth knowledge of a wide range of techniques and media that may be used and adapted for leadlight and stained glass • create panels using differing innovative leadlight and stained glass effects • identify the likely impact of various environmental effects on leadlight and stained glass • comply with legislation, regulations, standards, codes of practice and established safe practices and procedures for leadlight and stained glass • 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 and Australian Standard requirements. The following resources should be made available: • workplace location or simulated workplace • materials and equipment relevant to the production of innovative leadlight and stained glass • specifications and work instructions.

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.
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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)
Research may include, but is not limited to:	• seeking out information in books, journals and newspapers • visiting exhibitions and museums • conducting material and technical experiments and tests • approaching individuals with relevant expertise • reviewing approaches of other practitioners
New techniques may include, but are not limited to:	• screen printing • using computer design software • use of non-traditional materials and media • fusing different glass • sandwiching materials • applying different painting and firing techniques
New media may include, but is not limited to:	• fabrics • silks • metals • glass • canvas • gauze • wool • velour • paper • wood • film • computer-generated imagery
Intellectual property, moral rights and copyright requirements may include:	• the protocols for the adaptation of work by others • extent to which the work may be used • procedures for seeking permission to use the work of

	others, including systems for the administration of copyright
Experimentation may include, but is not limited to:	• colour mixes • textures • materials • painting styles

Unit Sector(s)

Leadlight and stained glass

Custom Content Section

Not applicable.