



Australian Government

Department of Education, Employment and Workplace Relations

LMFSL5005A Apply innovation in contemporary lead light and stained glass

Revision Number: 1

LMFSL5005A Apply innovation in contemporary lead light and stained glass

Modification History

Not applicable.

Unit Descriptor

Unit descriptor	This unit addresses the knowledge and skills required to apply innovative techniques in the development of leadlight or stained glass works that may include the adaptation of traditional techniques such as lead light 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 glass works may be produced through experimentation and subsequent refinement of ideas and techniques.
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Application of the Unit

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 lead light and stained glass applies to a workshop and onsite 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.
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Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Prerequisite units	Nil	

Employability Skills Information

Employability skills	This unit contains employability skills.
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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.
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Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Identify the potential or need for innovation	1.1. Applicable OHS, legislative and organisational requirements relevant to lead light and stained glass operations are verified and complied with 1.2. Analyse design or production elements to determine areas where research and experimentation may be appropriate 1.3. Proactively assess the potential for the use of new techniques and media to maximise the effectiveness of lead light and stained glass
2. Conduct research	2.1. Undertake relevant research to identify the historical, cultural and other factors that might influence techniques or media 2.2. Research, adapt and use relevant ideas and approaches from other practitioners with consideration of intellectual property, moral rights and copyright requirements 2.3. Identify appropriate specialists who may be able to contribute to the overall realisation of innovative lead light and stained glass 2.4. Maintain references in an accessible form to allow for use by other colleagues as required 2.5. Use research material to adapt styles for integration into lead light and stained glass production
3. Experiment with techniques and media	3.1. Conduct trials to establish the best ways in which the desired scenic art effect can be achieved 3.2. Assess results of experimentation, balancing the need for creative effectiveness and cost practicality 3.3. Select, adapt or introduce new materials, tools, equipment or technology for the achievement of different effects 3.4. Liaise with colleagues to provide information on the results of experimentation and to make appropriate decisions on new techniques and media 3.5. Set-up or coordinate specific resource requirements which arise from the use of different techniques in accordance with workplace requirements

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

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

Required skills

- collect, organise and understand materials technology and information related to innovative and contemporary leadlight and stained glass
- communicate ideas and information to enable confirmation of work requirements and specifications, coordination of work with site supervisor, other workers and customers, and the reporting of work outcomes and problems
- maintain quality records related to innovative and contemporary leadlight and stained glass
- work with others and in a team by recognising dependencies and using cooperative approaches to optimise work flow and productivity
- identify, anticipate and respond to faults in innovative and contemporary leadlight and stained glass
- recognise and respond to circumstances outside instructions or personal competence
- plan and organise 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
- use mathematical ideas and techniques to correctly complete measurements, calculate area and volume, estimate work and material requirements
- clarify and confirm work instructions
- plan own work within the given task parameters
- accept responsibility for given tasks
- set, monitor and satisfy personal work goals
- satisfy the competency requirements for the job
- maintain current knowledge of tools and materials
- maintain current knowledge of innovative and contemporary leadlight and stained glass
- seek learning opportunities
- use the workplace technology related to innovative and contemporary leadlight and stained glass components, including computers, measuring devices and recording systems

Required knowledge

- State or Territory OHS legislation, regulations, standards and codes of practice relevant to the full range of processes for lead light and stained glass operations
- contemporary lead light and stained glass construction terminology and techniques
- organisational and site standards, requirements, policies and procedures for preparation and installation of architectural lead light and stained glass
- types of glass and other materials used in the lead light and stained glass industry,

REQUIRED SKILLS AND KNOWLEDGE

- their characteristics, properties, uses and limitations
- appropriate innovative and experimental lead light and stained glass production techniques in 2-dimensional (2D) and 3-dimensional (3D)
- colour theory, line, dimension, chiaroscuro, depth and their application to lead light and stained glass
- painting and firing techniques
- the use and properties of a range of paints and media
- testing finished and unfinished materials,
- research skills and sources of information to inform research and experimentation on lead light and stained glass
- costs and costing processes for lead light and stained glass elements
- environmental protection requirements relating to the disposal of waste material
- established communication channels and protocols
- problem identification and resolution
- 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

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.

Critical aspects for assessment and evidence required to demonstrate competency in this unit

- Read and interpret a design specification
- Identify and explain the properties of lead light and stained glass
- Conduct research into new and innovative applications of lead light and stained glass
- Apply in depth knowledge of a wide range of techniques and media that may be used and adapted for lead light and stained glass
- Create panels using differing innovative lead light and stained glass effects
- Identify the likely impact of various environmental effects on lead light and stained glass
- Comply with legislation, regulations, standards, codes of practice and established safe practices and procedures for lead light 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 Standards requirements
- The following resources should be made available:
 - workplace location or simulated workplace
 - materials and equipment relevant to the production of innovative lead light and stained glass
 - specifications and work instructions

Method of assessment

Assessment must satisfy the endorsed assessment guidelines of the Furnishing Industry Training Package. Assessment methods must confirm consistency and accuracy of performance (over time and in a range of

EVIDENCE GUIDE

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

Range Statement

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.

OHS requirements	are to be in accordance with Commonwealth, State or Territory legislation and regulations, organisational safety policies and procedures. Requirements may include but not be 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.
Legislative requirements	are to be in accordance with applicable legislation from all levels of government that affect organisational operation. Requirements may include but not be limited to award and enterprise agreements, industrial relations, Australian Standards, confidentiality and privacy, OHS, the environment, equal opportunity, anti-discrimination, relevant industry codes of practice, duty of care and heritage.
Organisational requirements	may include but not be 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, 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 re-use guidelines)
Research	may include but is not limited to seeking out information in books, journals, newspapers, visiting exhibitions, museums, conducting material and technical experiments and tests, approaching individuals with relevant

RANGE STATEMENT	
	expertise, reviewing approaches of other practitioners
New techniques	may include but is not limited to screen printing, using computer design software, use of non traditional materials and media, fusing different glass, sandwiching materials and 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 and 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)

Unit sector	Lead Light and Stained Glass
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Competency field

Competency field	
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Co-requisite units

Co-requisite units		

