



Australian Government

Department of Education, Employment and Workplace Relations

LMFSL5003A Conserve heritage lead light and stained glass

Revision Number: 1

LMFSL5003A Conserve heritage lead light and stained glass

Modification History

Not applicable.

Unit Descriptor

Unit descriptor	This unit addresses the knowledge and skills required to conserve heritage lead light and stained glass by preservation, restoration or reconstruction under the principles as determined by the Australia ICOMOS Burra Charter.
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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 conserve heritage lead light and stained glass applies to a workshop and on site environment and involves application of skills and knowledge at an artisan 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 conservation requirements	1.1. Applicable OHS, legislative and organisational requirements relevant to lead light and stained glass operations are verified and complied with 1.2. Detailed inspections of the heritage lead light and stained glass are conducted to verify conservation requirements 1.3. Conservation requirements are identified confirmed and clarified with appropriate personnel
2. Plan conservation processes	2.1. Conservation sequence is identified and a work plan is developed 2.2. Tools and equipment required for the conservation are identified 2.3. Approval of conservation plan is obtained as required by agreed procedures
3. Prepare for the conservation process	3.1. Tools and equipment are positioned and checked prior to use to ensure that they are appropriate for the task, serviceable and in a safe condition 3.2. Plans and other documents are positioned to allow for confirmation of the panel structure 3.3. Outline charcoal rubbings are made to confirm design during the process 3.4. Photographs are taken of the panel for later reference
4. Conduct the conservation process	4.1. Panel is conserved and components are cleaned or disposed of. 4.2. Decisions on conservation methods are confirmed 4.3. Replacement materials are selected and prepared 4.4. Measurements and tests are conducted to confirm conservation plan 4.5. Panel is assembled and checked against the original data
5. Finalise and report on the assessment	5.1. Conserved lead light and stained glass panel is inspected for quality of work and problems are rectified 5.2. Tools and equipment are removed cleaned and stored appropriately 5.3. Conservation area is cleaned and rubbish disposed of as appropriate 5.4. Panel is packaged and stored prior to movement and installation.

ELEMENT	PERFORMANCE CRITERIA
	5.5. <i>Conservation report</i> is prepared and provided as required

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 heritage 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 heritage 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 heritage 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 heritage leadlight and stained glass
- seek learning opportunities
- use the workplace technology related to the conservation of heritage 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
- the principles of the Burra Charter, the Australia ICOMOS Charter for Places of Cultural Significance
- lead light and stained glass panels construction and repair terminology and techniques
- organisational and site standards, requirements, policies and procedures for the assessment of lead light and stained glass panels

REQUIRED SKILLS AND KNOWLEDGE

- types of glass and other materials, historically used in the lead light and stained glass industry, their characteristics, properties, uses and limitations
- preservation, restoration or reconstruction techniques and when to use them
- heritage requirements specific to lead light and stained glass
- 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 work/job specification
- Identify and interpret heritage legislation as it applies to lead light and stained glass panels
- Identify historical lead light and stained glass panel construction methods
- Assess and make decisions on conservation methods
- Identify faults and problems with lead light and stained glass panels, and their remedial methods
- Conserve heritage leadlight and stain glass panels in accordance with industry best practice
- Comply with legislation, regulations, standards, codes of practice and established safe practices and procedures for the assessment of conservation requirements of lead light and stained glass panels
- 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 Standards requirements
- The following resources should be made available:
 - workplace location or simulated workplace
 - materials and equipment relevant to the conservation of heritage lead light and stained glass panels
 - 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 workplace relevant contexts) together with application of

EVIDENCE GUIDE

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)

Conservation

- Conservation as defined in the Australia ICOMOS Burra Charter as meaning all of the processes of looking after a place needed to retain cultural significance. It includes maintenance and may include preservation,

RANGE STATEMENT	
	restoration, reconstruction and adaptation dependent upon specific circumstances. It commonly involves a combination of more than one of these. It also requires that the stained glass conservator respects and understands the requirements of other specialist crafts and the role of other specialist artisans. • Preservation is the process of maintaining the lead light and stained glass panel in its existing state and of retarding deterioration. • Restoration means returning the lead light and stained glass panel to a known earlier state by removing accretions or by reassembling existing components without the introduction of new material. • Reconstruction means returning the lead light and stained glass panel to a known earlier state and is distinguished by the introduction of new materials.
Appropriate personnel	• may include but not be limited to clients, architects, engineers construction supervisors, members of heritage committees, government agencies other specialist artisans, such as stonemasons
Tools and equipment	• may include work benches, light tables, glass grinders, lead knives, lead vice, lathekins, farriers nails, glass cutters, grozing and small running pliers, soldering irons and bits, suede, cleaning and polishing brushers and pickers and general hand tools
Plans and other documents	• may include original architectural plans, historical documents and photographs, charcoal rubbings and sketches
Replacement materials	• may include but is not limited to glass, comes, solder and putty
Preparation	• may include but is not limited to painting, cutting, rolling and soldering
Measurements	• may include comparisons with the original plans or other available data
Tests	• may include structural soundness testing and colour matching

RANGE STATEMENT	
Assembly	may include the requirement to assemble sections in order to facilitate later installation
Conservation report	- would be in a format required by the client and other bodies and may include such aspects as the extent of the conservation methods applied, problems encountered and methods of dealing with them. - may also include details required by government bodies

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		