



Australian Government

MSFSL5003 Conserve heritage leadlight and stained glass

Release: 1

MSFSL5003 Conserve heritage leadlight and stained glass

Modification History

Release 1 - New unit of competency

Application

This unit of competency covers conserving heritage leadlight and stained glass by preservation, restoration or reconstruction under the principles determined by the Australia International Council on Monuments and Sites (ICOMOS) Burra Charter.

Licensing, legislative or certification requirements may apply to this unit and relevant state/territory and local government agencies should be consulted to determine any necessary certification or licensing for undertaking glass and glazing work. Access to construction sites requires certification of general induction training specified by the *National Code of Practice for Induction for Construction Work (ASCC 2007)*.

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 conservation requirements	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	Detailed inspections of the heritage leadlight 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 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 | Components requiring conservation 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 original data |
| 5 | Finalise and report on the conservation process | 5.1 | Conserved leadlight and stained glass panel is inspected for quality of work and problems 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 |
| | | 5.5 | Conservation report is prepared and provided, as required |

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: | <ul style="list-style-type: none">• 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 discretion and apply judgement and problem solving to complex issues |
| Conservation includes: | <ul style="list-style-type: none">• advice in the Australia ICOMOS Burra Charter as meaning all of the processes of looking after a place needed to retain cultural significance• preservation, 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 includes: | <ul style="list-style-type: none">• maintaining the leadlight and stained glass panel in its existing state and of retarding deterioration |
| Restoration includes: | <ul style="list-style-type: none">• returning the leadlight and stained glass panel to a known earlier state by removing accretions or by re-assembling existing components without the introduction of new material |
| Reconstruction includes: | <ul style="list-style-type: none">• returning the leadlight and stained glass panel to a known earlier state and is distinguished by the introduction of new materials |
| Appropriate personnel include: | <ul style="list-style-type: none">• clients• architects |

	• engineers • construction supervisors • members of heritage committees • government agencies • other specialist artisans, such as stonemasons
Tools and equipment 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 • general hand tools
Plans and other documents include:	• original architectural plans • original drawings, cartoons and cut lines for glass panels • historical documents and photographs • charcoal rubbings • sketches
Replacement materials include:	• glass • came • solder • putty
Preparation includes:	• painting • cutting • rolling • soldering
Measurements include:	• comparisons with the original plans or other available data
Tests include:	• structural soundness testing and colour matching
Assembly includes:	• the requirement to assemble sections in order to facilitate later installation
Conservation report includes:	• detailing the extent of the conservation methods applied • problems encountered • methods of dealing with them • photographic records of process and assembly • details required by government bodies

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 LMFSL5003B Conserve heritage leadlight and stained glass.

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 MSFSL5003 Conserve heritage leadlight and stained glass

Modification History

Release 1 - New unit of competency

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 and interpret heritage legislation as it applies to leadlight and stained glass panels
- Identify historical leadlight and stained glass panel construction methods
- Assess and make decisions on conservation methods
- Identify faults and problems with leadlight and stained glass panels, and their remedial methods
- Conserve at least two (2) different heritage leadlight and stained 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 leadlight and stained glass panels
- 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
- The principles of the Australia International Council on Monuments and Sites (ICOMOS) Burra Charter
- Leadlight and stained glass panels construction and repair terminology and techniques

- Organisational and site standards, requirements, policies and procedures for the assessment of leadlight and stained glass panels
- Types of glass and other materials, historically used in the leadlight and stained glass industry, their characteristics, properties, uses and limitations
- Preservation, restoration or reconstruction techniques and when to use them
- Heritage requirements specific to leadlight and stained glass
- Established communication channels and protocols
- Relevant problem identification and resolution in conservation of heritage 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

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 a panel, materials, equipment and specifications relevant to the conservation of heritage leadlight and stained glass panels.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0601ab95-583a-4e93-b2d4-cfb27b03ed73>