



Australian Government

MSFSL5004 Install heritage leadlight and stained glass

Release: 1

MSFSL5004 Install heritage leadlight and stained glass

Modification History

Release 1 - New unit of competency

Application

This unit of competency covers installing heritage leadlight and stained glass panels following their conservation.

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.

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| 1 | Identify and plan installation 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 | Location of the leadlight and stained glass panel to be installed is established, confirmed and clarified with appropriate personnel |
| | | 1.3 | Installation sequence is identified and a work plan is developed |
| | | 1.4 | Tools and equipment required for the installation are identified |
| | | 1.5 | Approval of installation plan is obtained as required by agreed procedures |

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| 2 | Prepare for installation | 2.1 Tools and equipment are positioned and checked prior to use to ensure they are appropriate for the installation, serviceable and in a safe condition |
| | | 2.2 Inspection of the opening where the panel is to be installed is conducted |
| | | 2.3 Leadlight and stained glass panel is inspected to ensure its integrity while being installed |
| | | 2.4 Plans and other documents are positioned to allow for confirmation of the panel structure and placement |
| | | 2.5 Photographs are taken of the panel for later reference |
| 3 | Install the panel | 3.1 Panel is installed and placed in position |
| | | 3.2 Supporting frames are removed from the panel |
| | | 3.3 Panel structural supports are installed and checked |
| | | 3.4 Structural damage is identified and noted |
| | | 3.5 Photographs of process of installation are taken for later reference |
| 4 | Finalise and report on the installation | 4.1 Installed panel is inspected and damage resulting from the installation is identified and rectified |
| | | 4.2 Tools and equipment are removed cleaned and stored appropriately |
| | | 4.3 Removal area is cleaned and rubbish disposed of, as appropriate |
| | | 4.4 Installation 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:	• 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
Appropriate personnel include:	• clients • architects • engineers • construction supervisors • members of heritage committees • government agencies • other specialist artisans, such as stonemasons
Tools and equipment include:	• work benches • ladders and scaffolding • cameras • magnifying glasses • lights • cranes • forklifts • general hand tools
Inspection includes:	• measuring to determine if the panel is the correct size and ensuring that the supporting infrastructure required for the panel is in place
Plans and other documents include:	• original architectural plans • original drawings, cartoons and cut lines of the panel • historical documents and photographs • contemporary photographs • charcoal rubbings • sketches
Installation includes:	the requirement to dismantle the panel prior to installation to stop further damage, and assembling the panel in place

Supporting frames include:	• wooden or metal frames that support the leadlight and stained glass panels during its transportation and installation
Installation report includes:	• detailing the extent of any damage to the surrounding building or fixture • any damage to the panel • any recommendations as to future requirements
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 LMFSL5004B Install 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 MSFSL5004 Install 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
- Identify framing, structural and construction techniques relevant to leadlight and stained glass panels
- Identify appropriate installation methodologies
- Install at least two (2) heritage leadlight and stained glass panels in different locations
- Comply with legislation, regulations, standards, codes of practice and established safe practices and procedures for the removal of heritage 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
- Lead light and stained glass panels construction and repair terminology and techniques
- The principles of the Australia International Council on Monuments and Sites (ICOMOS) Burra Charter
- Organisational and site standards, requirements, policies and procedures for the installation of heritage 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
- Heritage requirements specific to leadlight and stained glass
- Engineering aspects of supporting leadlight and stained glass panels during the installation process
- Established communication channels and protocols
- Relevant problem identification and resolution for 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 installation of heritage leadlight and stained glass panels following conservation work.

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