



Australian Government

MSFGG3014 Construct and repair leadlight panels

Release: 1

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Modification History

Release 1 - New unit of competency

Application

This unit of competency covers constructing and repairing leadlight panels and may involve restoration and conservation of historically important stained glass and leadlighting works. It includes measuring, design and selection of materials and tools, and disassembly/assembly, weatherproofing and polishing of leadlight panels.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Competency Field

Unit Sector

Glass and Glazing

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 work requirements | 1.1 Purpose of the leadlight panel is established, including performance requirements in terms of safety, quality and function |
| | 1.2 Research is conducted, where necessary, to establish if leadlight panels to be repaired are historically important |
| | 1.3 Construction method and materials to be used in the panel to be constructed or repaired are identified |
| | 1.4 Leadlight panel to be repaired is inspected to identify faults and any faults found compared with customer requirements and any previous identified faults |

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| 2 | Plan leadlight panel construction/repair | 2.1 | Plan or design of leadlight panel to be constructed/repared is analysed to identify work requirements, methods and/or specifications |
| | | 2.2 | Work health and safety (WHS) requirements for construction and repair of leadlight panels, including personal protective equipment, are observed throughout the work |
| | | 2.3 | Work sequences are identified and a personal work plan is developed, when required, compliant with workplace procedures |
| | | 2.4 | Steps or stages in construction/repair are planned, noting check points for (any) measurements and tests |
| | | 2.5 | Approval of work construction plan is obtained as required by workplace procedures and a suitable work area identified |
| 3 | Identify suitable materials and equipment | 3.1 | Tools and equipment are selected and checked prior to use to ensure they are appropriate for the work, serviceable and in a safe condition |
| | | 3.2 | Leadlight construction materials are selected according to specification of performance requirements, proposed use, cost and availability of materials, if required, matching the original texture, colour, thickness and opacity of the stained glass |
| | | 3.3 | Equipment suitable for working the chosen material is identified |
| 4 | Construct/repair the leadlight panel | 4.1 | Plan is followed to construct/repair the leadlight panel, including any special requirements for historically important works |
| | | 4.2 | Checks are conducted at the identified points |
| | | 4.3 | Modifications are identified and recommended within workplace procedures |
| | | 4.4 | Modifications to the plan are documented and appropriate approvals are sought in accordance with workplace procedures |
| 5 | Complete work | 5.1 | Leadlight panel is inspected for quality of work and repaired or reconstructed, as required, in accordance with workplace procedures |
| | | 5.2 | Material which can be re-used is collected and stored |

- 5.3 Waste and scrap material are removed for disposal or recycling, as required
- 5.4 Work area is cleaned and rubbish disposed of, as appropriate
- 5.5 Equipment is cleaned and stored according to workplace requirements
- 5.6 Workplace documentation is completed in accordance with workplace procedures

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.

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| 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 some discretion, judgement and problem solving |
| Repair methods include: | <ul style="list-style-type: none">• re-leading• strap repair and lead lifting• restoration and conservation of historically important stained glass and leadlighting works |
| Tools and equipment include: | <ul style="list-style-type: none">• timber benches• light boxes• glass grinders• lead knives• lead vice• lathekins• farrier's nails• glass cutters• grozing and small running pliers• soldering irons and bits• suede• cleaning and polishing brushers and pickers |
| Leadlight construction materials include: | <ul style="list-style-type: none">• coloured/plain glass panels• patterns/templates• timber lathes• ornamental fittings• lead came• solder and fluxes |
| Personal protective equipment includes: | <ul style="list-style-type: none">• that prescribed under legislation, regulation and enterprise policies and practices:<ul style="list-style-type: none">• gauntlets• gloves |

Information and procedures include:

- safety glasses
- safety footwear
- 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
- quality and Australian Standards and procedures

Unit Mapping Information

Supersedes and is equivalent to LMFGG3013C Construct and repair leadlight panels.

Links

Companion Volume implementation guides are found in VETNet -
<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=0601ab95-583a-4e93-b2d4-cfb27b03ed73>