



Australian Government

MSFSL3006 Assemble copper foil glass components

Release: 1

MSFSL3006 Assemble copper foil glass components

Modification History

Release 1. New unit

Application

This unit specifies the skills and knowledge required to assemble copper foil components using a range of fixing and joining components.

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

Pre-requisite Unit

Nil

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	Determine job requirements	1.1	Follow standard operating procedures (SOPs)
		1.2	Comply with work health and safety (WHS) requirements at all times
		1.3	Use appropriate personal protective equipment (PPE) in accordance with SOPs
		1.4	Identify job requirements from specifications, drawings, designs, job sheets or work instructions
2	Plan and prepare for work	2.1	Carry out service on selected tools and equipment, including identifying/rectifying or reporting any faults prior to commencement

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| | | 2.2 | Identify and obtain materials appropriate to the work application ensuring they are prepared, safely handled and located ready for use |
| | | 2.3 | Identify and apply environmental workplace considerations and measures to reduce noise, dust and obstacles |
| | | 2.4 | Plan assembly sequence |
| | | 2.5 | Select fixing and joining devices in accordance with types of materials to be joined and work instructions |
| | | 2.6 | Select and check jigs for suitability of purpose |
| 3 | Assemble components | 3.1 | Lay out and assemble components using jigs and appropriate fastenings |
| | | 3.2 | Use hand and power tools as required |
| | | 3.3 | Check assembled work for compliance with specifications |
| | | 3.4 | Prepare, assemble and fit components in accordance with specifications |
| | | 3.5 | Repair or tag work which does not meet quality specifications for further processing or recycling/disposal |
| | | 3.6 | Organise and store finished products in holding area |
| 4 | Check work area and maintain equipment | 4.1 | Tag and report faulty and/or defective equipment in accordance with workplace procedures |
| | | 4.2 | Remove waste and scrap material for disposal and/or recycling as required |
| | | 4.3 | Clean, check and maintain tools and equipment in accordance with manufacturers' recommendations and SOPs |
| | | 4.4 | Maintain work area in accordance with SOPs |

Foundation Skills

This section describes those required skills (reading, writing, oral communication and numeracy) that are essential to workplace performance in this unit of competency.

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

This field allows for 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.

- 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 some discretion, judgement and problem solving

- Components include one (1) or more of the following:**
- panels and components thereof
 - three-dimensional objects, lamps and sculptures
 - repair process

- Tools and equipment include one (1) or more of the following:**
- benches
 - light boxes
 - glass grinders
 - lead knives
 - foil dispensers
 - lathekins
 - farrier nails
 - glass cutters
 - grozing and small running pliers
 - soldering irons and bits
 - reinforcement materials
 - cleaning and polishing brushes
 - pickers

Materials include one (1) or more of the following:

- coloured/plain glass
- patterns/templates
- patinas
- ornamental fittings
- copper foil
- solders and fluxes

PPE includes one (1) or more of the following:

That prescribed under legislation, regulations and enterprise policies and practices, including:

- industry standard PPE for manual handling glass
- safety glasses
- respirator masks, ventilation or extraction systems for soldering
- safety footwear
- work wear

Information and procedures include one (1) or more of the following:

- workplace procedures relating to the use and operation of tools and equipment and PPE
- workplace instructions, including job sheets, cutting lists, plans, drawings and designs
- workplace procedures relating to reporting and communications
- manufacturer specifications and operational procedures

Unit Mapping Information

New Unit

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 MSFSL3006 Assemble copper foil glass components

Modification History

Release 1. New unit

Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy the requirements of the elements and performance criteria and include:

- following work instructions, SOPs and safe work practices
- identifying and interpreting specifications, drawings, standards and other relevant information to assemble copper foil glass components
- applying safe handling requirements for equipment, products and materials, including the use of PPE
- identifying and selecting materials to be used in the work process
- using mathematical ideas and techniques to complete measurements, including calculating area and estimating material requirements
- using tools and equipment in a safe and effective manner
- completing a minimum of:
 - assembling copper foil components, including one (1) panel or door insert and one (1) three-dimensional object to industry standards
 - repairing and reinforcing one (1) copper foil component
- disposing of waste and scrap material in accordance with environmental guidelines and workplace procedures
- communicating and working effectively and safely with others.

Knowledge Evidence

Evidence required to demonstrate the required knowledge for this unit must be relevant to and satisfy the requirements of the elements and performance criteria and include knowledge of:

- safe work practices and procedures and use of PPE
- state or territory WHS legislation, regulations, standards and codes of practice relevant to the full range of processes for assembling copper foil components
- organisational and site standards, requirements, policies and procedures for component assembly
- environmental protection requirements relating to the disposal of waste material
- established communication channels and protocols
- relevant problem identification and resolution
- types of tools and equipment and procedures for their safe use, operation and maintenance
- characteristics of copper foil components and materials used in assembly

- procedures for recording, reporting and maintenance of workplace records and information.

Assessment Conditions

- Assessors must:
 - satisfy the assessor competency requirements that are in place at the time of the assessment as set by the VET regulator
 - have vocational competency in assembling copper foil glass components at least to the level being assessed with relevant industry knowledge and experience
- Where possible assessment must occur in operational workplace situations. Where this is not possible or where personal safety or environmental damage are limiting factors, assessment must occur in a sufficiently rigorous simulated environment that reflects realistic operational workplace conditions that cover all aspects of workplace performance, including environment, task skills, task management skills, contingency management skills and job role environment skills.
- Conditions for assessment must include access to all tools, equipment, materials and documentation required, including relevant workplace procedures, product and manufacturing specifications.
- Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

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