



Australian Government

MSFGG3032 Mirror glass

Release: 1

MSFGG3032 Mirror glass

Modification History

Release 1. Supersedes and is equivalent to MSFGG3012 Set up and operate glass mirroring equipment.

Application

This unit describes the skills and knowledge required to set up, operate, monitor and maintain glass mirroring equipment.

This unit applies to glass processing workers mirroring glass in accordance with pre-determined work orders.

No licensing or certification requirements exist at the time of publication. Relevant legislation, industry standards and codes of practice within Australia must be applied.

Pre-requisite Unit

N/A

Unit Sector

Glass and Glazing

Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Prepare for work	1.1 Read work instructions and identify job and quality requirements 1.2 Identify and follow work health and safety requirements, using all required personal protective equipment 1.3 Identify quality procedures for each stage of the process 1.4 Plan work sequence in a logical order to suit the job and workplace procedures 1.5 Establish and maintain communication with others involved with the work to ensure efficient work flow coordination, personnel cooperation and safety
2. Prepare glass for mirroring	2.1 Remove existing mirror by acid washing, cleaning and polishing in accordance with work instructions 2.2 Wash glass to be mirrored with detergent in accordance with

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	workplace procedures 2.3 Rinse glass to be mirrored with demineralised water in accordance with workplace procedures
3. Conduct glass mirroring operations	3.1 Apply tinning solution in accordance with workplace procedures 3.2 Rinse glass with demineralised water in accordance with workplace procedures 3.3 Apply mirror solution to glass in accordance with workplace procedures 3.4 Wash and blow dry glass in accordance with workplace procedures 3.5 Apply backing paint in accordance with workplace procedures
4. Complete work	4.1 Inspect product for quality of work and discard or return items which do not meet quality requirements for reprocessing in accordance with workplace procedures 4.2 Place completed work in holding area in accordance with workplace procedures 4.3 Clean work area and safely dispose of rubbish in accordance with workplace procedures 4.4 Inspect, maintain and tag equipment in accordance with workplace procedures 4.5 Remove and store tools, equipment and unused materials in accordance with workplace procedures 4.6 Accurately complete required workplace documentation

Foundation Skills

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

Unit Mapping Information

Supersedes and is equivalent to MSFGG3012 Set up and operate glass mirroring equipment.

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 MSFGG3032 Mirror glass

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Performance Evidence

There must be evidence the candidate has completed the tasks outlined in the elements and performance criteria of this unit, and:

- completed the mirroring process on 3 different types of glass.
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Knowledge Evidence

There must be evidence the candidate has knowledge of:

- purpose and key provisions of relevant Australian Standards
- workplace safety system requirements related to the operation of glass mirroring equipment
- work flow requirements in relation to the operation of glass mirroring equipment, including how the process fits into the overall glass processing system
- the role and importance of communication with others in relation to quality and safety
- characteristics of materials used and uses of products produced by glass mirroring operations
- mathematical procedures
- common items found in work instructions for glass laminating, including:
 - material to be used
 - number of sheets to be mirrored and holding area for completed items
 - process required to complete work tasks
- qualities, characteristics and uses of different types of glass for mirroring, including:
 - annealed
 - laminated
 - sheet
 - toughened
- types, characteristics, safe use, maintenance and limitations of glass mirroring equipment:
 - backing paint
 - buffing and cleaning tables
 - compressors
 - copper plating electrodes
 - dual nozzle spray guns
 - extractor fans

- heated drying racks
- mirroring formulas
- semi-automatic and computer-navigated mirroring equipment
- solution containers
- spray booths
- stripping acid tanks for re-mirroring
- tinning solution
- water distiller
- identification, handling and storage requirements for hazardous chemicals
- procedures for the preparation of glass and the mirroring process, the types of problems that may occur and how to avoid and respond
- quality indicators for mirrored glass
- handling and storage requirements for completed mirrored glass
- procedures for the recording, reporting and maintenance of workplace records and information.
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Assessment Conditions

Skills must have been demonstrated in the workplace or in a simulated environment that reflects workplace conditions and contingencies. The following conditions must be met for this unit:

- use of suitable facilities, equipment and resources, including:
 - equipment, tools and materials to complete tasks in Performance Evidence
 - glass product to be mirrored
 - safety and personal protective equipment
 - work orders
 - workplace procedures.

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

Links

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