

Title	Demonstrate knowledge of manufacturing screen printed glass		
Level	4	Credits	5

Purpose	<p>This theory-based unit standard is for experienced people in the glass processing industry working with specialist glass.</p> <p>People credited with this unit standard are able to demonstrate knowledge of: preparing for manufacturing screen printed glass; and manufacturing screen printed glass.</p>
----------------	---

Classification	Glass and Glazing > Glass Processing and Manufacturing
-----------------------	--

Available grade	Achieved
------------------------	----------

Guidance Information

- 1 Legislation, guidelines, and standards relevant to this unit standard include:
[Health and Safety at Work Act 2015](#);
Safe Use of Machinery: Best Practice Guidelines; available at www.worksafe.govt.nz;
AS/NZS 2208:1996, *Safety glazing materials in buildings*;
AS/NZS 2080:2006, *Safety glazing for land vehicles*; available at <http://www.standards.co.nz>.

Any new, amended or replacement Acts, regulations, standards, codes of practice, guidelines, or authority requirements or conditions affecting this unit standard will take precedence for assessment purposes.

- 2 Definitions
Job specifications refer to the scope of the work being undertaken. It includes the objectives, quality requirements, deliverables, timeline, budget, etc.
Screen printed glass refers to glass printed with ceramic enamel (frit) ink which is permanently fused to the glass with heat.
Workplace procedures refer to the documented procedures specific to a workplace that set out the standard and the required practices of that workplace. This may include job specifications, procedures, practices, manufacturer recommendations, technical data sheets and material safety data sheets.

- 3 Assessment
Evidence for this unit standard must reflect:
 - industry standards, current health, safety, industry, and workplace procedures;
 - job specifications and customer requirements;
 - industry requirements for commercially acceptable timeframes.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of preparing for manufacturing screen printed glass.

Performance criteria

- 1.1 Requirements for preparing the work area and personal safety precautions are identified and described.
- Range requirements include – selection and use of protective clothing and safety equipment, identification of hazards, ventilation of production area, clearing work area, ensuring cleanliness of work area, tables and screens.
- 1.2 Process for checking glass to be manufactured is described.
- Range process includes – glass and the production process to be used match with requirements of works or customer order, glass size is within processing equipment limitations, glass manufacturer's size and processing limitations, printing face, shapes and patterns for printing.
- 1.3 Process for preparing ink for printing is described.
- Range process includes – selection of ink, checking of shelf life, mixing of ink, recording of works or customer order details with print colour for future reference.
- 1.4 Process for preparing the screen for printing is described.
- Range process includes – selection of screen size, selection of mesh size, checking screen condition, checking of screen marking pattern.

Outcome 2

Demonstrate knowledge of manufacturing screen printed glass.

Performance criteria

- 2.1 Set-up for printing process is described.
- 2.2 Process for screen printing glass is described.
- 2.3 Process for drying glass is described.
- 2.4 Documentation requirements are identified and described.

Planned review date	31 December 2029
----------------------------	------------------

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	18 June 2015	31 December 2026
Rollover and Revision	2	25 August 2022	31 December 2026
Review	3	24 October 2024	N/A

Consent and Moderation Requirements (CMR) reference	0073
--	------

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Comments on this unit standard

Please contact Hanga-Aro-Rau Manufacturing, Engineering and Logistics Workforce Development Council at qualifications@hangaarorau.nz if you wish to suggest changes to the content of this unit standard.