

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>
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Classification	Glass and Glazing > Glass Processing and Manufacturing
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Available grade	Achieved
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Guidance Information

1 Definitions

Screen printed glass – glass printed with ceramic enamel (frit) ink which is permanently fused to the glass with heat.

Worksite requirements – refer to instructions to staff on policy and procedures which are documented in memo or manual format and are available in the workplace.

These requirements include – company specifications and procedures, work instructions, manufacturer’s specifications, product quality specifications, legislative requirements.

2 Legislation and standards relevant to this unit standard include – Health and Safety at Work Act 2015, Resource Management Act 1991 and the following Australia/New Zealand Standards:

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>.

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 ensuring personal safety are explained in terms of worksite requirements.
- 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 used in manufacturing is described in terms of worksite requirements.
- 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 in terms of worksite requirements.
- 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 in terms of worksite requirements.
- 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 in terms of the job specifications and worksite requirements.
- 2.2 Process for screen printing glass is described in terms of worksite requirements.
- 2.3 Process for drying glass is described in terms of worksite requirements.
- 2.4 Documentation requirements are identified and described in terms of worksite requirements.

Planned review date	31 December 2022
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	18 June 2015	N/A
Rollover and Revision	2	25 August 2022	N/A

Consent and Moderation Requirements (CMR) reference	0073
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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.