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| Title | Etch glass | | |
| Level | 4 | Credits | 10 |

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| Purpose | <p>This unit standard is for experienced people in the glass processing industry working with decorative glass.</p> <p>People credited with this unit standard are able to: prepare for etching glass; etch designs onto glass; and complete job requirements.</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 Definition
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 relevant to this unit standard includes – Health and Safety at Work Act 2015, Health and Safety in Employment Regulations 1995, Hazardous Substances and New Organisms Act 1996, Resource Management Act 1991.

Outcomes and performance criteria

Outcome 1

Prepare for etching glass.

Performance criteria

- 1.1 Work area is checked to ensure it complies with legislative and worksite requirements.

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| Range | checks may include – running water, operational drainage system, operational air ducting for fumes, accessibility of chemicals. |
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- 1.2 Protective clothing and equipment necessary for the task is used in accordance with legislative and worksite requirements.
- Range protective clothing and equipment includes – overalls, full face mask, gloves, protective apron.
- 1.3 Any potential hazards are identified and preventative measures are taken in accordance with legislative and worksite requirements.
- 1.4 Silk screen and/or stencil is designed in accordance with customer's specifications and worksite requirements.

Outcome 2

Etch designs onto glass.

Performance criteria

- 2.1 Material is fixed in frame so that no movement occurs during the etching in accordance with worksite requirements.
- Range material includes – glass, stencil or silk screen.
- 2.2 Etching chemicals are selected in accordance with the hardness of glass to be etched.
- 2.3 Glass is completely covered with etching chemical in accordance with worksite requirements.
- 2.4 Etching chemical is left on glass for specified time in accordance with manufacturer's and worksite requirements.
- 2.5 Glass is cleaned until free of etching chemicals in accordance with worksite requirements.
- 2.6 Glass is etched without damage to glass and injury to the operator and other personnel in accordance with worksite requirements.

Outcome 3

Complete job requirements.

Performance criteria

- 3.1 Etched glass is cleaned and stored in accordance with worksite requirements.
- Range cleaning includes – grit-free, blow-dried, stacked, marked, free of masking material.
- 3.2 Work is completed in accordance with job specifications and customer's requirements.

- 3.3 Machinery, equipment and materials are cleaned and stored in accordance with manufacturer's and worksite requirements.
- 3.4 Post-processing clean-up of work area is conducted to ensure that work area is left free of debris in accordance with worksite requirements.
- 3.5 Work is completed without injury to personnel and damage to product, equipment, and machinery in accordance with worksite requirements.

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| 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 | 11 June 1995 | 31 December 2013 |
| Revision | 2 | 5 February 1997 | 31 December 2013 |
| Revision | 3 | 20 December 1999 | 31 December 2013 |
| Review | 4 | 27 April 2004 | 31 December 2013 |
| Review | 5 | 19 June 2009 | 31 December 2017 |
| Review | 6 | 18 June 2015 | N/A |
| Rollover and Revision | 7 | 25 August 2022 | N/A |

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| 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.