

Title	Manufacture Insulated Glass Units (IGUs)		
Level	4	Credits	10

Purpose	<p>This unit standard is for experienced people in the glass processing industry.</p> <p>People credited with this unit standard are able to prepare to manufacture IGUs, and manufacture IGUs.</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.

Outcomes and performance criteria

Outcome 1

Prepare to manufacture IGUs.

Performance criteria

- 1.1 Preparation of work area and personal safety precautions are carried out in accordance with worksite requirements.

Range preparation includes – selection and use of protective clothing and safety equipment, identification of hazards, selection of equipment and completion of maintenance checks, checking materials for shelf life and compliance with storage requirements, review of operational procedures, quality control checks, clearing work area.

1.2 Glass used to manufacture IGUs is checked in accordance with worksite requirements.

Range checks include – glass and processing match with requirements of work or customer order (to include type and thickness, make-up, orientation, shapes, size), quality of glass (to include freedom from seeds, surface damage, edge chips), glass size is within processing equipment limitations, glass clear of dirt and moisture, free of sharp edges.

Outcome 2

Manufacture IGUs.

Performance criteria

2.1 Paperwork is checked to confirm specification of IGUs to be processed.

2.2 Spacers are selected, cut, or bent and frame is completed in accordance with worksite requirements.

2.3 Dessicant fill is completed in accordance with worksite requirements.

Range fill process includes – inserting corner keys, completing dessicant fill.

2.4 Primary seal is applied in accordance with worksite requirements.

2.5 Glass is prepared for assembly in accordance with worksite requirements.

Range preparation includes – final washing and drying, final checking for faults, orientation for frame placement.

2.6 IGU unit is assembled in accordance with worksite requirements.

Range assembly tasks include – application of prepared frame to first piece of glass, application of second piece of glass, pressing of unit after assembly.

2.7 Where gas fill is required, it is completed in accordance with worksite requirements.

2.8 Where a secondary seal is required, it is applied, and labelling is completed in accordance with worksite requirements.

2.9 Final inspection and/or testing is carried out to ensure completed product meets legislative and 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	27 April 2004	31 December 2013
Review	2	21 May 2010	31 December 2017
Review	3	18 June 2015	N/A
Rollover and Revision	4	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.