

L5 Prepare Prepare for the installation of a complex glazing system

| | |
|---------------------------|--|
| Kaupae Level | 5 |
| Whiwhinga Credit | 15 |
| Whāinga Purpose | This standard recognises the knowledge and skills required to prepare for installation of a complex glazing system It contributes to the Advanced Glazing Skills micro-credential and provides recognition for specialist glazing tradespeople. |

Hua o te ako me Paearu aromatawai | Learning outcomes and assessment criteria

| Hua o te ako Learning outcomes | Paearu aromatawai Assessment criteria |
|--|--|
| 1. Analyse glazing system documentation to prepare for the installation of complex glazing systems | a. Glass type, dimensions, and components are confirmed as accurate from job documentation. |
| | b. Installation methods are interpreted from manufacturers' specifications to meet compliance requirements. |
| | c. Schedules are developed to communicate job stages and responsibilities for planned installation tasks. |
| 2. Assess the job site to plan for the installation of complex glazing systems | a. Access and storage needs are identified to maintain site safety. |
| | b. Pre-installation checks of material quality and quantities, the site, and structure are confirmed to be ready for glazing installation. |
| | c. Stakeholders are communicated with to confirm installation and site requirements. |
| | d. Site specific safety plan and job safety analysis is developed to identify and communicate safety requirements for the installation. |

Pārongo aromatawai me te taumata paearu | Assessment information and grade criteria

Assessment specifications:

Evidence generated for assessment against this standard must be drawn from a complex glazing system installation project undertaken by the candidate and verified by a commercially competent person who has current expertise in complex glazing installation projects.

Complex glazing system refers to glass installation that requires advanced techniques to be used, uses more than four panels of toughened glass, and requires installation in a complex situation.

Typical complex glazing systems include engineered canopies and facades, complex frameless partitions, and balustrades that are curved, along stairways, and multi-level. A complex installation context includes those that are higher risk, at height, requiring moving equipment, alternative solutions, proprietary systems, or a system that is outside of a proprietary system.

Ngā momo whiwhinga | Grades available

Achieved

Ihirangi waitohu | Indicative content

Materials

Site assessment

Documentation for complex glazing

- Architectural plans and specifications
- Shop drawings
- Acoustic reports
- Wind loading report
- Producer statements
- Manufacturers' specifications
- Engineering requirements
- Project estimations and conditions
- Contracts

Construction knowledge

- Interfaces
- Structural elements
- Openings
- Waterproofing
- Weatherproofing

Measurement

- Manual and digital measuring equipment
- Advanced methodology

Moving equipment

- Limitations
- Capabilities
- Methodology
- Hiab
- Site crane
- Gantry crane
- Mini crawler crane
- Specialist glass lifting machinery
- Sucker bank
- Grabs
- Lifting trolley/A frame

Health and safety

- Glass types and properties
- Composition
- Dimensions and weight
- Tolerances - manufacturing and structural
- Glazing systems installation methodologies

On-site assessment

- Job safety analyses
- Hazard identification and management
- Site-specific safety plans
- material safety data sheets
- Installation site is checked – can be installed into
- Operational safety zones around glazing installation
- Task analysis, hazard and risk identification, risk management techniques.
- Implementation of risk management and planned use of safety equipment and personal protective equipment.
- Temporary traffic management rules, signage requirements and glazier responsibilities.

Operational

- Machinery and equipment requirements.
- Moving and lifting requirement, capacity.

Rauemi | Resources

Programme guidance available from qualifications@waihangaararau.nz

Pārongo Whakaū Kounga | Quality assurance information

| | |
|--|--|
| Ngā rōpū whakatau-paerewa Standard Setting Body | Waihanga Ara Rau Construction and Infrastructure Workforce Development Council |
| Whakaritenga Rārangi Paetae Aromatawai DASS classification | Planning and Construction > Construction Trades > Glazing |
| Ko te tohutoro ki ngā Whakaritenga i te Whakamanatanga me te Whakaōritenga CMR | 0048 |

| Hātepe Process | Putanga Version | Rā whakaputa Review Date | Rā whakamutunga mō te aromatawai Last date for assessment |
|-----------------------------------|--------------------------|-----------------------------------|--|
| Rēhitatanga Registration | 1 | dd June 2024 | N/A |

| | |
|--|--------------|
| Rā arotake Planned review date | dd June 2029 |
|--|--------------|

Please contact Waihanga Ara Rau Construction and Infrastructure Workforce Development Council at qualifications@waihangaararau.nz to suggest changes to the content of this skill standard..

DRAFT