

Title	Assemble aluminium joinery products		
Level	3	Credits	15

Purpose	<p>This entry-level unit standard is for people employed in the aluminium joinery industry.</p> <p>People credited with this unit standard are able to: prepare to assemble aluminium joinery products; prepare the work area for the safe and productive assembly of aluminium joinery; prepare the aluminium extrusions for assembly; assemble aluminium joinery to ensure required performance for completed unit; select and fit hardware to assembled aluminium joinery unit; and check the assembled product for compliance with the job specifications, and complete company procedures.</p>
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Classification	Joinery > Architectural Aluminium Joinery
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Available grade	Achieved
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Explanatory notes

- 1 Legislation and standards relevant to this unit standard include – Building Act 2004, Health and Safety in Employment Act 1992, Resource Management Act 1991, New Zealand Standard (NZS) 4211:2008 *Specification for performance of windows*, NZS 3504:1979 *Specification for aluminium windows*, and NZS 4223 Parts 1 and 2:1985 *Code of practice for glazing in buildings*, available at <http://www.standards.co.nz>.
- 2 Definition
Company procedures – the documents and procedures that include company rules, codes and practices; machine and equipment operating instructions; quality and conformance checks; and health and safety requirements.
- 3 Range
Aluminium joinery products include – windows (awning, casement, fixed, hinged, sliding bi-fold, coupled frames), doors (hinged, sliding, bi-fold, coupled frames).
Candidates must demonstrate competence in the assembly of all these products.

Outcomes and evidence requirements

Outcome 1

Prepare to assemble aluminium joinery products.

Evidence requirements

- 1.1 Product specifications and quality requirements are verified in accordance with company procedures.
- Range specifications include – computerised drawings, job sheets.
- 1.2 Sequence of operations is planned and verified with a supervisor in accordance with company procedures.

Outcome 2

Prepare the work area for the safe and productive assembly of aluminium joinery.

Evidence requirements

- 2.1 Work area is free of debris and abrasive materials in accordance with company procedures.
- 2.2 Tools and equipment required are selected, checked for serviceability, and set up in accordance with company procedures.
- Range tools and equipment include – soft hammer, screwdrivers, pop riveters, blade knife, sealant gun, snips, scissors, measuring tools, drills.
- 2.3 Materials are selected, profiles are verified for accuracy, and materials are laid out in accordance with company procedures.
- Range materials include – sealant, glazing seals, mohair seals, wool pile seal, fasteners.

Outcome 3

Prepare the aluminium extrusions for assembly.

Evidence requirements

- 3.1 Extrusions are cleaned in accordance with company procedures.
- 3.2 Seals are fitted to the product in accordance with the job specifications.
- Range seals may include – PVC backing rubber, wood pile seals, mohair seals, co-extruded PVC/Santoprene, self-adhesive tape.

Outcome 4

Assemble aluminium joinery to ensure required performance for completed unit.

Evidence requirements

- 4.1 Sealant is applied in accordance with manufacturer's specifications.

Range application includes – small joint sealant, silicone sealant, secondary seals.

4.2 Fasteners for joint requirements are selected in accordance with the job specifications.

Range fasteners may include – self-tapping screws, rivets, nutserts, machine screws, tek screws.

4.3 Joinery products are assembled and fastened in accordance with the job specifications.

4.4 Assembled product is cleaned and all excess sealant residue removed in accordance with company procedures.

Outcome 5

Select and fit hardware to assembled aluminium joinery unit.

Evidence requirements

5.1 Hardware of material compatible with the product is selected, fitted, and is operational in accordance with the job specifications.

Outcome 6

Check the assembled product for compliance with the job specifications, and complete company procedures.

Evidence requirements

6.1 Unit is square and dimensions are in accordance with the job specifications.

6.2 Unit is clean and free of defects in accordance with the job specifications.

6.3 Tools and equipment are cleaned and surplus materials are stored in accordance with company procedures.

6.4 Waste materials are removed from assembly site and disposed of in accordance with company procedures.

Planned review date	31 December 2020
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	11 August 1993	31 December 2012
Review	2	26 July 2000	31 December 2012
Review	3	24 August 2006	31 December 2012
Rollover and Revision	4	20 May 2011	31 December 2017
Review	5	21 May 2015	N/A

Consent and Moderation Requirements (CMR) reference

0048

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

Please note

Providers must be granted consent to assess against standards (accredited) by NZQA, or an inter-institutional body with delegated authority for quality assurance, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be granted consent to assess against standards by NZQA before they can register credits from assessment against unit standards.

Providers and Industry Training Organisations, which have been granted consent and which are assessing against unit standards must engage with the moderation system that applies to those standards.

Requirements for consent to assess and an outline of the moderation system that applies to this standard are outlined in the Consent and Moderation Requirements (CMRs). The CMR also includes useful information about special requirements for organisations wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

Comments on this unit standard

Please contact the Building and Construction Industry Training Organisation info@bcito.org.nz if you wish to suggest changes to the content of this unit standard.