

Title	Demonstrate knowledge of relevant profiled metal cladding installation methods, trade practice, and licensing		
Level	4	Credits	5

Purpose	<p>This unit standard is for people who work in the plumbing industry.</p> <p>People credited with this unit standard are able to:</p> <ul style="list-style-type: none"> – describe wall structures; – describe preparations for installation of cladding; – demonstrate knowledge of cladding installation processes; and – demonstrate knowledge of regulatory requirements, selection of methods and materials, and underpinning concepts and principles, as applied to the installation of cladding.
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Classification	Plumbing, Gasfitting and Drainlaying > Plumbing
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Available grade	Achieved
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Guidance Information

- 1 Legislation, regulations and/or industry standards relevant to this unit standard include but are not limited to:
 Building Act 2004;
 Health and Safety at Work Act 2015;
 Plumbers, Gasfitters, and Drainlayers Act 2006;
 Plumbers, Gasfitters, and Drainlayers Regulations 2010.

The following standards, which are available at <http://www.standards.govt.nz>:
 NZS 3604:2011 *Timber-framed buildings*,
 AS/NZS3500.3:2021 *Plumbing and draining, Part 3: Stormwater Drainage*.

The following Building Code clauses, and any related Acceptable Solution and Verification Method documents, which are available at <https://www.building.govt.nz>:
 New Zealand Building Code Clause E2 External Moisture,
 New Zealand Building Code Clause E1 Surface Water.

Any new, amended or replacement referenced standards, codes of practice, guidelines, Building Code Acceptable Solutions and Verification Methods, or authority requirements affecting this unit standard will take precedence for assessment purposes, pending review of this unit standard.

2 Definitions

Cladding substrate and structure refers, where applicable, to – laps, junctions, framing, direction of lay.

Job specifications refer to instructions (oral, written, graphic) and may include any of the following – manufacturer instructions; design drawing detail specifications; specifications from a specialist source such as an architect, designer, engineer, or a supervisor; and site or work specific requirements.

- 3 Candidates must hold a current limited certificate trainee authorisation or exemption under supervision as issued under the Plumbers, Gasfitters, and Drainlayers Act 2006.

Outcomes and performance criteria

Outcome 1

Describe wall structures.

Performance criteria

- 1.1 Describe process to confirm substrate and structure meet the requirements of codes, standards, job specifications, industry requirements, and manufacturer instructions.
- Range includes new cladding and re-clad or repair.
- 1.2 Describe requirements of framing layout for proposed cladding installation.
- 1.3 Describe process to confirm correct timber treatments with reference to installation of cladding materials.

Outcome 2

Describe preparations for installation of cladding.

Performance criteria

- 2.1 Describe height safety controls relevant to cladding.
- Range includes but is not limited to – scaffolding, safety nets, harness systems, edge protection, elevated work platforms.
- 2.2 Describe process to determine materials and quantities required.
- 2.3 Describe processes for managing a re-clad or repair.

Outcome 3

Demonstrate knowledge of cladding installation processes.

Performance criteria

- 3.1 Describe process for installing underlay/vapour barrier.
- 3.2 Describe appropriate fixing patterns for different profiles and environments.
- 3.3 Describe process for installing and fixing cladding.
- 3.4 Explain how to determine appropriate flashing dimensions, materials, and quantities to meet job requirements.
- 3.5 Describe finishing processes for cladding installation.
- Range installing accessories, cleaning swarf and debris from work area, inspecting finished work, correcting defects.

Outcome 4

Demonstrate knowledge of regulatory requirements, selection of methods and materials, and underpinning concepts and principles, as applied to the installation of cladding.

Performance criteria

- 4.1 Describe applicable sections of legislation, standards, and codes in terms of their application to the installation of wall cladding systems.
- Range includes but is not limited to – licensing, limitations on scope of work.
- 4.2 Justify selection of methods and materials.
- Range job specifications, operation of the installed system and components, suitability and durability of materials; may include job requirements.
- 4.3 Describe the implication of environmental factors for selection of materials.
- Range includes but is not limited to – ventilation, exposure to weather, heat, moisture, airflow, wind loading, corrosion zones, environmental conditions.
- 4.4 Describe purposes and processes of management of chemical properties of cladding materials.
- Range includes but is not limited to – corrosion including electrolysis, capillary attraction, expansion and contraction.

Replacement information	This unit standard, unit standard 30545, unit standard 30546, unit standard 30548, and unit standard 30549 replaced unit standard 21884.
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Planned review date	31 December 2029
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	26 October 2017	31 December 2028
Review	2	30 May 2024	N/A

Consent and Moderation Requirements (CMR) reference	0003
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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 Waihanga Ara Rau Construction and Infrastructure Workforce Development Council qualifications@waihangaararau.nz if you wish to suggest changes to the content of this unit standard.