

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

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

- 1 References
 

Building Act 2004;  
 Health and Safety at Work Act 2015;  
 Plumbers, Gasfitters, and Drainlayers Act 2006;  
 Plumbers, Gasfitters, and Drainlayers Regulations 2010;  
 The following clauses, current versions, and any related compliance documents, which are available at <https://www.building.govt.nz>:  
 New Zealand Building Code Clause E2 External Moisture,  
 New Zealand Building Code Clause G11 Gas as an Energy Source;  
 and all subsequent amendments and replacements.
- 2 Range
 

Profiled metal cladding.
- 3 Definitions
 

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

*Job specifications* – 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. Where job specifications are in conflict with applicable legislation, standards, and/or codes, such legislation, standards, and/or codes shall take precedence for the purpose of assessment.

- 4 Candidates must hold a current limited certificate or exemption under supervision as issued under the Plumbers, Gasfitters, and Drainlayers Act 2006.
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## **Outcomes and performance criteria**

### **Outcome 1**

Demonstrate knowledge of 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**

Demonstrate knowledge of preparations for installation of cladding.

#### **Performance criteria**

- 2.1 Describe height safety controls relevant to cladding.
- Range scaffolding, safety nets, harness systems, edge protection.
- 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 must include 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, prudent use and longevity of materials; may include job requirements.

4.3 Describe the implication of environmental factors for selection of materials.

Range must include 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 must include but is not limited to – corrosion, capillary attraction, expansion and contraction.

<b>Replacement information</b>	This unit standard, unit standard 30545, unit standard 30546, unit standard 30548, and unit standard 30549 replaced unit standard 21884.
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<b>Planned review date</b>	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	26 October 2017	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	0003
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

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### Comments on this unit standard

Please contact The Skills Organisation [reviewcomments@skills.org.nz](mailto:reviewcomments@skills.org.nz) if you wish to suggest changes to the content of this unit standard.