

<b>Title</b>	<b>Demonstrate knowledge of installing wall, ceiling, and underfloor insulation, and ground vapour barriers</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>8</b>

<b>Purpose</b>	<p>People credited with this unit standard are able to demonstrate knowledge of:</p> <ul style="list-style-type: none"> <li>• hazards associated with handling and installing insulation,</li> <li>• tools and equipment used to install insulation,</li> <li>• methods used to install insulation,</li> <li>• legal requirements for the use of insulation in new buildings and residential rental properties.</li> </ul>
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<b>Classification</b>	Construction Trades > Carpentry
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<b>Available grade</b>	Achieved
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## Guidance Information

### 1 Legislation relevant to this unit standard includes:

- Health and Safety at Work Act 2015
- The Resource Management Act 1991
- Hazardous Substances and New Organisms Act 1996
- The Building Act 2004
- Consumer Guarantee Act 1993
- New Zealand Building Code: Clause H1 Energy Efficiency.

### New Zealand Standards relevant to this unit standard include:

- NZS 4246:2016 *Installing insulation in residential buildings*
- NZS 3604:2011 *Timber Framed Buildings*
- NZS 4218:2009 *Energy Efficiently Housing and small buildings*
- NZS 4243:1996 *Energy efficiency – Large Buildings Part 1: Building Thermal Envelope.*

### Code of Practice relevant to this unit standard:

- NZECP 55:2016 *New Zealand Code of Practice for Managing Electrical Risks Associated with Electrically Conductive Thermal Insulation.*

### 2 Evidence is required for wall, ceiling, midfloor, underfloor, and acoustic insulation, and ground vapour barriers.

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## Outcomes and performance criteria

### Outcome 1

Demonstrate knowledge of hazards associated with handling and installing insulation.

#### Performance criteria

1.1 Describe the hazards associated with handling insulation.

Range includes – hazards from lifting, and skin, eye and respiratory tract irritation.

1.2 Describe the hazards associated with installation of insulation.

Range includes but is not limited to – electrical, fire, glass, confined/restricted spaces, poor air quality, sewerage, water, working at height, noise and contaminated materials.

1.3 Explain how to safely minimise or eliminate hazards associated with handling and installing insulation.

Range includes – protecting self, others and environment, disposal of hazardous materials.

### Outcome 2

Demonstrate knowledge of tools and equipment used to install insulation.

#### Performance criteria

2.1 Describe the use, storage and maintenance of tools used for insulation installation according to operational requirements and manufacturers' specifications.

2.2 Describe the safe and legal use of access equipment for insulation installation.

Range may include – scaffolding, other access equipment.

2.3 Explain health and safety requirements when working with tools and equipment.

Range safe use, required personal protective equipment.

### Outcome 3

Demonstrate knowledge of methods used to install insulation.

**Performance criteria**

- 3.1 Explain the methods used to install insulation products into different parts of a building according to New Zealand standards and industry best practice methods.

**Outcome 4**

Explain legal requirements for the use of insulation in new buildings and residential rental properties.

**Performance criteria**

- 4.1 Explain the minimum legal requirements for insulation in new buildings according to the New Zealand Building Code.
- 4.2 Explain the minimum legal requirements for insulation in residential rental properties.

<b>Planned review date</b>	31 December 2026
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**Status information and last date for assessment for superseded versions**

Process	Version	Date	Last Date for Assessment
Registration	1	24 June 2021	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	0048
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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 the Building and Construction Industry Training Organisation [national.office@bcito.org.nz](mailto:national.office@bcito.org.nz) if you wish to suggest changes to the content of this unit standard.