

<b>Title</b>	<b>Demonstrate knowledge of insulation products</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>4</b>

<b>Purpose</b>	People credited with this unit standard are able to demonstrate knowledge of insulation products.
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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 and regulations relevant to this unit standard include:

- Health and Safety at Work Act 2015
- Resource Management Act 1991
- Hazardous Substances and New Organisms Act 1996
- Consumer Guarantees Act 1993
- Building Act 2004
- 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: 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.*

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## Outcomes and performance criteria

### Outcome 1

Demonstrate knowledge of insulation products.

Range includes but is not limited to – blown or sprayed; hempcrete; cellular glass; glass mineral wool; rock mineral wool; icynene; phenolic foam; polyisocyanurate or polystyrene; extruded polyurethane; expanded polyurethane foam; wool; hemp; straw; aerogel.

**Performance criteria**

- 1.1 Describe the properties of insulation products.
- Range properties include – heat loss, thermal resistance, conduction, convection, energy efficiency, fire resistance.
- 1.2 Describe the use of insulation in terms of where it is used in a building and why.
- Range types of insulation used for wall, ceiling, and underfloor insulation, midfloor, acoustic and ground vapour barriers.

<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**Status information and last date for assessment for superseded versions**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.