

Title	Install external insulation to pipe-work and ducting for mechanical building services		
Level	3	Credits	3

Purpose	<p>This unit standard is intended primarily for use in the training of personnel in the mechanical building services industry and covers installation of external insulation to pipe-work and ducting for mechanical building services.</p> <p>People credited with this unit standard are able to prepare to install, and install external insulation to pipe-work and ducting for mechanical building services.</p>
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Classification	Mechanical Engineering > Heating, Ventilating, and Air Conditioning
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Available grade	Achieved
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Guidance Information

- 1 Reference and legislation
Health and Safety at Work Act 2015.
- 2 Definitions
Accepted industry practice refers to approved codes of practice and standardised procedures accepted by the mechanical building services industry sector as examples of best practice.
Specifications include technical standards, documented operating and maintenance procedures or instructions for the system, installation drawings, manufacturers' data, installation instructions, installation programme schedules, material schedules, and site instructions.
- 3 Range
Insulation is to be installed to duct work, and chilled or hot water pipe-work.
Evidence of three jobs is required.
- 4 Assessment information
The evidence must relate to the candidate's own specific work, not work jointly performed with other team members, except where the other team member is checking or assessing the candidate.

Outcomes and performance criteria

Outcome 1

Prepare to install external insulation for mechanical building services.

Performance criteria

- 1.1 Materials on site are verified against manufacturer's specifications.
Range quantities, material type, wall thickness, outer finishings.
- 1.2 Setting-out of job is in accordance with manufacturer's specifications.

Outcome 2

Install external insulation to pipe-work and ducting for mechanical building services.

Performance criteria

- 2.1 Insulation is positioned and secured in accordance with manufacturer's specifications and accepted industry practice.
- 2.2 Installation of insulation is completed within the time frame specified and without unplanned cost or waste.
- 2.3 Installation of insulation is completed so that all control instructions and identifications are readable.

Replacement information	This unit standard replaced unit standard 3241 and unit standard 3242.
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Planned review date	31 December 2023
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	16 July 2010	31 December 2023
Review	2	29 March 2018	31 December 2023
Review	3	1 November 2018	N/A

Consent and Moderation Requirements (CMR) reference	0013
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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 Competenz qualifications@competenz.org.nz if you wish to suggest changes to the content of this unit standard.