

Title	Demonstrate knowledge of building construction methods for a medium building		
Level	5	Credits	10

Purpose	People credited with this unit standard are able to demonstrate knowledge of: site setup; and materials and construction methods for foundations and sub-structure, skeletal and structural components, the envelope, the interior, and siteworks for a medium building.
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Classification	Construction Trades > Carpentry Theory
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Available grade	Achieved
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Guidance Information

1 Definitions

Contract documentation refers to plans and drawings, working drawings, work or product specifications relating to the specified construction site operation.

Medium buildings are light to medium weight commercial or industrial buildings up to three levels above ground which utilise commercial or industrial materials, construction techniques, and services.

Work site practice refers to the documented procedures specific to a work site which set out the standard and required practices of that work site.

2 Legislation relevant to this unit standard includes:

Health and Safety at Work Act 2015 and Health and Safety in Employment Regulations 1995;

Building Act 2004, Building (Forms) Regulations 2004;

Resource Management Act 1991;

New Zealand Building Code;

available from <https://www.legislation.govt.nz/>

and all subsequent amendments and replacements.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of site setup for a medium building.

Performance criteria

1.1 Site setup requirements are identified from contract documentation.

1.2 Site setup requirements are described in terms of work site practice.

- 1.3 The planning process is described for the site setup of a medium building from contract documentation.

Outcome 2

Demonstrate knowledge of materials and construction methods for foundations and sub-structure of a medium building.

Range slab on ground, ground beams, bored piles, screwed piles, driven piles, shallow footings.

Performance criteria

- 2.1 Types of foundations and sub-structure, and materials required to build them are identified from contract documentation.
- 2.2 Construction methods for foundation and sub-structure systems are described in accordance with work site practice.

Outcome 3

Demonstrate knowledge of materials and construction methods for skeletal and structural components of a medium building.

Range walls, floor, beams and columns, roofs.

Performance criteria

- 3.1 Materials required for skeletal and structural components are identified from contract documentation.
- 3.2 Construction methods are described in terms of site constraints, time and cost requirements, contract documentation, and quality standards.

Outcome 4

Demonstrate knowledge of materials and construction methods for the envelope of a medium building.

Range three of – curtain walls, precast concrete panels, sheet products, veneers, expanded polystyrene system, stucco, modified plaster systems, weatherboards, metal, tanking.

Performance criteria

- 4.1 Materials required for the building envelope are identified from contract documentation.
- 4.2 Construction methods are described in terms of site constraints, time and cost requirements, contract documentation, and quality standards.

4.3 Cladding jointing systems are described in terms of weathering, sealants, flashings, and compatibility and jointing between systems.

Outcome 5

Demonstrate knowledge of materials and construction methods for the interior of a medium building.

Range lining, finishes, joinery, hardware, services.

Performance criteria

5.1 Materials required for the building interior are identified from contract documentation.

5.2 Construction methods are described.

Range site constraints, time and cost requirements, contract documentation, quality standards.

Outcome 6

Demonstrate knowledge of materials and construction methods for siteworks for a medium building.

Range paving, landscape gardening, driveway, car park.

Performance criteria

6.1 Materials required for siteworks are identified from contract documentation.

6.2 Construction methods are described.

Range site constraints, time and cost requirements, contract documentation, quality standards.

Replacement information	This unit standard replaced unit standard 20737.
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Planned review date	31 December 2027
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	15 April 2011	31 December 2025
Review	2	30 March 2023	N/A

Consent and Moderation Requirements (CMR) reference	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 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.