

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

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

- 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 in Employment Act 1992 and Health and Safety in Employment Regulations 1995;
 Building Act 2004, Building (Forms) Regulations 2004;
 Resource Management Act 1991;
 New Zealand Building Code.

Outcomes and evidence requirements

Outcome 1

Describe site setup for a medium building.

Evidence requirements

- 1.1 Site setup requirements are identified from examples of 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 examples of contract documentation.

Outcome 2

Describe 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.

Evidence requirements

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

Outcome 3

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

Range walls, floor, beams and columns, roofs.

Evidence requirements

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

Outcome 4

Describe 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.

Evidence requirements

- 4.1 Materials required for the building envelope are identified from examples of 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

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

Range lining, finishes, joinery, hardware, services.

Evidence requirements

- 5.1 Materials required for the building interior are identified from given examples of contract documentation.
- 5.2 Construction methods are described in terms of site constraints, time and cost requirements, contract documentation, and quality standards.

Outcome 6

Describe materials and construction methods for siteworks for a medium building.

Range paving, landscape gardening, driveway, car park.

Evidence requirements

- 6.1 Materials required for siteworks are identified from given examples of contract documentation.
- 6.2 Construction methods are described in terms of site constraints, time and cost requirements, contract documentation, and quality standards.

Replacement information	This unit standard replaced unit standard 20737.
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Planned review date	31 December 2015
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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	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>.

Please note

Providers must be granted consent to assess against standards (accredited) by NZQA, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be granted consent to assess against standards by NZQA before they can register credits from assessment against unit standards.

Providers and Industry Training Organisations, which have been granted consent and which are assessing against unit standards must engage with the moderation system that applies to those standards.

Requirements for consent to assess and an outline of the moderation system that applies to this standard are outlined in the Consent and Moderation Requirements (CMRs). The CMR also includes useful information about special requirements for organisations wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

Comments on this unit standard

Please contact the Building and Construction Industry Training Organisation national.office@bcito.org.nz if you wish to suggest changes to the content of this unit standard.