

<b>Title</b>	<b>Demonstrate knowledge of alterations and additions for construction</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>3</b>

<b>Purpose</b>	People credited with this unit standard are able to describe: requirements of an on site pre construction investigation; the construction process when making an alteration or addition at the same or a split level; raising an existing building and adding a bottom storey; the methods of adding a top storey to an existing building; excavating under an existing building to form a new basement; the construction of timber decks; and procedures for maintaining health and safety requirements when constructing alterations and additions on site.
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<b>Classification</b>	Construction Trades > Carpentry Theory
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<b>Available grade</b>	Achieved
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## Guidance Information

- 1 Definition  
*Specific design* is a design that ensures compliance with the Building Act 2004 when the construction requirements of a building deviates from, or is beyond the scope of recognised industry standards (New Zealand Standards, Australia/New Zealand Standards, British Standards and other published standards that govern the construction industry).
- 2 Credit for this unit standard indicates compliance with industry practice. *Industry practice* refers to the ability to demonstrate knowledge that reflects the uniformity, finish quality and material economies currently accepted within industry.
- 3 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 Regulations 1992 and Building (Forms) Regulations 2004;  
Resource Management Act 1991;  
New Zealand Building Code;  
NZS 3604:1999 *Timber Framed Buildings*, available from Standards NZ (<http://www.standards.co.nz>).

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## Outcomes and performance criteria

### Outcome 1

Describe requirements of an on site pre-construction investigation.

**Performance criteria**

- 1.1 Information requirements for an on site pre-construction investigation are described.
- Range clear space available; slope of the ground; bearing capacity of the ground; position of services; area taken up by drives and paths; existing trees and other items to be retained; position, area and details of existing buildings; hazardous materials; insurance responsibilities, occupancy.
- 1.2 The use of on site pre-construction investigation data, in conjunction with design documents, is described in terms of determining the construction process.

**Outcome 2**

Describe the construction process when making an alteration or addition at the same or a split level.

**Performance criteria**

- 2.1 Methods are described for opening up existing buildings and joining up to match.
- 2.2 Options for temporary weather protection are described in terms of job requirements.
- 2.3 Methods used to maintain existing services are described in terms of minimum disruption.
- Range electricity, gas, communications systems, water, stormwater, sewerage.

**Outcome 3**

Describe raising an existing building and adding a bottom storey.

**Performance criteria**

- 3.1 Preparatory work for raising a building is described.
- 3.2 Methods of raising and supporting an existing building are described.
- 3.3 Excavation and construction are described in terms of adding a bottom storey to an existing building.
- 3.4 Final work is described in terms of adding a bottom storey.
- Range lowering, fixing, 'making good'.

**Outcome 4**

Describe the methods of adding a top storey to an existing building.

**Performance criteria**

- 4.1 Methods of strengthening an existing building are described in terms of adding a new top storey.
- 4.2 Location, construction and installation of access stairs are described in accordance with the requirements of the Building Code.
- 4.3 Methods of construction and temporary weatherproofing are described in terms of adding a new top storey to an existing building.

**Outcome 5**

Describe excavating under an existing building to form a new basement.

**Performance criteria**

- 5.1 The methods of excavation and temporary support of an existing building are described in terms of excavating under it.
- 5.2 Installation of beams, beam supports and retaining walls is described in terms of forming a new bottom storey under an existing building.
- 5.3 Construction of a bottom storey and access stairs is described in terms of adding a bottom storey under an existing building.

**Outcome 6**

Describe the construction of timber decks.

**Performance criteria**

- 6.1 Functions of members of a timber deck are described.
  - Range piles, post, bearers, beams, joist, bracing, decking, balustrades, mechanical fixings.
- 6.2 Construction requirements of decks are described.
  - Range NZS 3604:1999 or specific design.

**Outcome 7**

Describe procedures for maintaining health and safety requirements when constructing alterations and additions on site.

**Performance criteria**

7.1 Procedures for maintaining health and safety requirements when constructing alterations and additions are described.

Range work methods, plant, equipment, identification of hazards and controls.

<b>Replacement information</b>	This unit standard replaced unit standard 13030.
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**This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.**

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

Process	Version	Date	Last Date for Assessment
Registration	1	25 January 2008	31 December 2023
Review	2	30 September 2021	31 December 2023

<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>.