

<b>Title</b>	<b>Demonstrate knowledge of preparation for footings and slab on ground construction</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>2</b>

<b>Purpose</b>	People credited with this unit standard are able to: describe factors relating to the excavation of a site for footings and slab; describe factors relating to placing hardfill and blinding layer on a construction site; and outline factors relating to laying damp proof membrane and applying emulsion in accordance with manufacturer's and site documents.
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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

- Definitions**

*Site documents* refer to any official documentation for the site, and may include consents, working drawings, plans and specifications, reports, producer statements, any relevant industry standards, or any other documentation critical to the construction process.

*Specifications* refers to documented instructions (oral, written, graphic) and may include any of the following: manufacturer's specifications, recommendations or technical data sheets; material specifications; specifications from a specialist source such as an architect, designer, engineer or a supervisor; site or work specific requirements.
- 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.
- 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;
  - 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 factors relating to the excavation of a site for footings and slab.

#### Performance criteria

- 1.1 Site documents are interpreted in terms of setting out and excavating a site for footings and slab to establish position, size, line, depths, and location of services.
- Range plans, specifications, service location drawings from utility suppliers.
- 1.2 Methods of excavation are described in terms of requirements for footings and slab.
- Range work methods, plant, equipment, identification of hazards and controls.
- 1.3 Methods of dealing with excavated spoil are explained in terms of site and safety requirements.
- 1.4 Methods of calculating quantity of excavated material including allowances for bulking are described, and accurate sample calculations performed in accordance with industry practice.

### Outcome 2

Describe factors relating to placing hardfill and blinding layer on a construction site.

#### Performance criteria

- 2.1 Methods of calculating quantities of material needed are described in terms of given examples of job specifications.
- Range hardfill, blinding layer.
- 2.2 Methods of placement are described in terms of the material concerned.
- Range placing, spreading, levelling, compacting.

### Outcome 3

Explain factors relating to laying damp proof membrane and applying emulsion in accordance with manufacturer's recommendations and site documents.

**Performance criteria**

- 3.1 Methods of calculating quantity of damp proof membrane needed are described, and accurate sample calculations performed in accordance with industry practice.
- 3.2 Methods of laying damp proof membrane are explained in accordance with NZS 3604:1999.
- 3.3 Methods of sealing joints and penetrations are described.
- 3.4 Methods of applying emulsion are described in terms of health and safety requirements.

<b>Replacement information</b>	<p>This unit standard and unit standard 13043 replaced unit standard 607.</p> <p>This unit standard was replaced by unit standard 32447.</p>
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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	21 May 1999	31 December 2023
Review	2	26 February 2002	31 December 2023
Review	3	25 January 2008	31 December 2023
Review	4	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>.