

Title	Demonstrate knowledge of excavating and filling for footings and slab construction		
Level	3	Credits	2

Purpose	People credited with standard can demonstrate knowledge of: <ul style="list-style-type: none"> • excavating and filling for footings and slab construction; and • health and safety for excavating and filling for footings and slab construction.
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Classification	Construction Trades > Carpentry
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Available grade	Achieved
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Guidance Information

1 Range

Evidence generated for assessment against this standard must reflect workplace and industry requirements specified in:

- documented worksite specifications, procedures, and practices;
- manufacturer recommendations, specifications, and technical data sheets;
- applicable specifications from other sources such as an architect, designer, engineer, or supervisor;
- applicable material safety data sheets;
- NZS 3109:1997 *Concrete construction*;
- NZS 3604:2011 *Timber Framed Buildings*;
- the New Zealand Building Code.

Evidence generated for assessment against this standard must reflect the requirements of:

- Building Act 2004
- Health and Safety at Work Act 2015
- Resource Management Act 1991
- Building Regulations 1992
- Building (Forms) Regulations 2004
- Health and Safety in Employment Regulations 1995.

2 References

NZS 3109:1997 *Concrete construction*, available from Standards NZ (<http://www.standards.co.nz>).

NZS 3604:2011 *Timber Framed Buildings* (SNZ). Available from Standards New Zealand (<http://www.standards.co.nz>).

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of excavating and filling for footings and slab construction.

Performance criteria

- 1.1 Use site documentation to determine the position, size, line, depths, and location of services for excavating a site for footings and a concrete slab.
- 1.2 Describe how to excavate a site for footings and a slab.
- Range work methods, plant, equipment, identification of hazards and controls.
- 1.3 Calculate the required quantities of hardfill and blinding for an excavation.
- 1.4 Describe how to place and spread the hardfill and blinding layers.
- Range levelling, compaction.
- 1.5 Calculate the required quantity of damp-proof membrane for a footings and slab excavation.
- 1.6 Describe how to lay the damp-proof membrane to meet the specifications in NZS 3604:2011.
- 1.7 Describe how to seal joints and penetrations.

Outcome 2

Demonstrate knowledge of health and safety for excavating and filling for footings and slab construction.

Range labour, identification of hazards and controls, plant; plant includes – any machinery, vehicle, vessel, aircraft, equipment (including personal protective equipment), appliance, container, implement, or tool; any component of any of those things; anything fitted or connected to any of those things; personal protective equipment includes – anything used or worn by a person (including clothing) to minimise risks to the person's health and safety; air supplied respiratory equipment.

Performance criteria

- 2.1 Identify and describe health and safety requirements for excavating and filling for footings and slab construction.

Replacement information	This unit standard replaced unit standard 13006.
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Planned review date	31 December 2026
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	30 September 2021	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 Building and Construction Industry Training Organisation at national.office@bcito.org.nz if you wish to suggest changes to the content of this unit standard.