

Title	Establish line, level, and gradient for plumbing or drainlaying		
Level	3	Credits	4

Purpose	<p>This unit standard is for people who work, or intend to work, in the plumbing or drainlaying industries.</p> <p>People credited with this unit standard are able to: identify and describe equipment used to establish levels and gradients for plumbing or drainlaying; set up equipment to establish line, level, and gradient for plumbing or drainlaying; establish line, level, and gradient for plumbing or drainlaying; and work safely and with care.</p>
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Classification	Plumbing, Gasfitting and Drainlaying > Core Plumbing, Gasfitting, and Drainlaying
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Available grade	Achieved
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Entry information	
Critical health and safety prerequisites	Candidates who are working within the jurisdiction of the Plumbers, Gasfitters and Drainlayers Board must hold a current drainlaying limited certificate or exemption for drainlaying under supervision as issued under the Plumbers, Gasfitters and Drainlayers Act 2006.

Explanatory notes

- 1 Legislation and codes applicable to this unit standard include but are not limited to: Health and Safety in Employment Act 1992
Building Act 2004
New Zealand Building Code Clause G13 Foul Water and any related compliance documents (available at <http://www.dbh.govt.nz>).

Any legislation or code superseding any of the above will apply, pending review of this unit standard.

- 2 Definitions
Job requirements, for the purposes of this unit standard, refer to specific requirements of the job at hand not covered by job specifications.

Job specifications, for the purposes of this unit standard, refer to instructions (oral, written, graphic) and may include any of the following: manufacturers' instructions; design drawing detail specifications; specifications from a specialist source such as an architect, designer, engineer, or a supervisor; and site or work specific requirements. Where job specifications are in conflict with applicable legislation, standards, and/or codes, such legislation, standards, and/or codes shall take precedence for the purpose of assessment.

Other services, for the purposes of this unit standard, refer to any existing installed services such as water, gas, electricity, or telephone network cables.

Outcomes and evidence requirements

Outcome 1

Identify and describe equipment used to establish levels and gradients for plumbing or drainlaying.

Range laser level, dumpy level, flexible hose, smart level, boning rods, spirit level.

Evidence requirements

- 1.1 Equipment is identified and is described in relation to uses in plumbing or drainlaying.

Outcome 2

Set up equipment to establish line, level, and gradient for plumbing or drainlaying.

Range laser level, dumpy level, spirit level, pegs or equivalent.

Evidence requirements

- 2.1 Equipment is set up in accordance with manufacturer's instructions and job requirements.
- 2.2 Equipment check establishes functionality.

Outcome 3

Establish line, level, and gradient for plumbing or drainlaying.

Range includes change of line-of-sight and gradient.

Evidence requirements

- 3.1 Line, invert level, outlet invert level, and gradient are established in accordance with job specifications.

Outcome 4

Work safely and with care.

Evidence requirements

- 4.1 Practical activities are carried out avoiding harm to people and damage to property, other services, materials, tools, and equipment.

Replacement information	This unit standard and unit standard 1099 were replaced by unit standard 30532 and unit standard 30533.
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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	31 January 1994	31 December 2022
Revision	2	7 August 1996	31 December 2022
Revision	3	3 April 1997	31 December 2022
Review	4	25 October 2007	31 December 2022
Review	5	15 March 2012	31 December 2022
Review	6	28 September 2017	31 December 2022

Consent and Moderation Requirements (CMR) reference	0003
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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 (CMR). 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.