

Title	Demonstrate knowledge of spot levels and contour plans		
Level	4	Credits	3

Purpose	People credited with this unit standard are able to: describe features of levelling instruments; describe how to take and use spot levels; and explain the purpose and features of a contour plan.
----------------	--

Classification	Construction Trades > Carpentry Theory
-----------------------	--

Available grade	Achieved
------------------------	----------

Guidance Information

- 1 Definition
A *builders level* is commonly known as a dumpy level, and consists of a spirit level mounted under and parallel to a telescope which is rigidly attached to its supports.
- 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;
Resource Management Act 1991;
New Zealand Building Code.

Outcomes and performance criteria

Outcome 1

Describe features of levelling instruments.

Range builder's level, laser level, theodolite, water level.

Performance criteria

- 1.1 Levelling instruments are described in terms of their set up, adjustment and safety requirements.
- 1.2 Levelling instruments are described in terms of the requirements for achieving accuracy.

Outcome 2

Describe how to take and use spot levels.

Performance criteria

2.1 Methods of taking spot levels are described in accordance with instruments used.

Range reading at level or stadia lines, calculation of height and distance, reading and recording horizontal angles.

2.2 Measuring and recording systems are described in terms of levelling instruments used.

2.3 Spot levels obtained are described in relation to datum point or profile heights.

Outcome 3

Explain the purpose and features of a contour plan.

Performance criteria

3.1 The purpose and methods used to interpret contour plans on a construction site are described.

Range grid height, contour heights, gradient.

Replacement information	<p>This unit standard and unit standard 13042 replaced unit standard 606.</p> <p>This unit standard, unit standard 13004 and unit standard 24379 were replaced by unit standard 32445.</p>
--------------------------------	--

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

Consent and Moderation Requirements (CMR) reference	0048
--	------

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

This unit standard is expiring