

Demonstrate knowledge of setting out a building

Level 4

Credits 3

Purpose People credited with this unit standard are able to describe the set out of a building on site and the setting out of building lines.

Subfield Construction Trades

Domain Carpentry Theory

Status Registered

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Entry information Open.

Replacement information This unit standard and unit standard 13041 replaced unit standard 605.

Accreditation Evaluation of documentation and visit by NZQA and industry.

Standard setting body (SSB) Building and Construction Industry Training Organisation

Accreditation and Moderation Action Plan (AMAP) reference 0048

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

Special notes

1 Definitions

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.

A *building profile* is used to transfer the plan outline of a building onto the ground.

Profile boards are held securely in place, and are made level and parallel to the floor.

Profile boards are boards used to create the building profile. Lines are stretched between saw-cuts or marks, so that set out points can be fixed.

Working drawings are defined as the set of drawings associated with a building project, and can include plans, elevations, sections, details or any other drawings that give information about a building project.

- 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;
Resource Management Act 1991;
Building Act 2004;
New Zealand Building Code.

Elements and performance criteria

Element 1

Describe the set out of a building on site.

Performance criteria

- 1.1 The method of setting out of a building on site is described in terms of Building Consent Authority approved documents.
- 1.2 Set out is described in terms of the setting up of building profiles.

Range location, erection, reduced level, stability, plumb, level, datum.
- 1.3 Levelling equipment and methods are described in terms of achieving a level surface within a specified tolerance.

Range straight edge and spirit level, water level, builder's level, laser level, theodolite.

Element 2

Describe the setting out of building lines.

Performance criteria

- 2.1 Methods used to determine where lines are to be placed, within a specified tolerance, are explained in relation to size, shape, and squareness.
- 2.2 Squaring methods are described in terms of placing lines within a specified tolerance.

Range use of Pythagoras' theorem, use of diagonal measurements, use of squaring devices.
- 2.3 Marking of set out points on profile boards is explained in relation to meeting the requirements of the working drawings.

Range position and size of footings and walls, beams, columns, gridlines, reinforcing, reduced level, fixings.

Please note

Providers must be accredited by NZQA, or an inter-institutional body with delegated authority for quality assurance, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be accredited by NZQA before they can register credits from assessment against unit standards.

Accredited providers and Industry Training Organisations assessing against unit standards must engage with the moderation system that applies to those standards.

Accreditation requirements and an outline of the moderation system that applies to this standard are outlined in the Accreditation and Moderation Action Plan (AMAP). The AMAP 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.

Comments on this unit standard

Please contact the Building and Construction Industry Training Organisation national.office@bcito.org.nz if you wish to suggest changes to the content of this unit standard.