

Title	Demonstrate knowledge of and create technical drawings for design and construction		
Level	3	Credits	15

Purpose	People credited with this unit standard are able to demonstrate knowledge of technical drawing for design and construction, and create sketches and technical drawings for design and construction.
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Classification	Construction > Architectural Technology
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Available grade	Achieved
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Explanatory notes

- 1 Definitions
Workplace practice refers to the documented procedures specific to a range of environments including workplaces, school workshops, work experience workplaces or other training establishments, which set out the standard and required practices of that workplace.
Drawing means drawing with the aid of drawing equipment.
- 2 Evidence must be provided using computer-assisted drawing software, manual drawing instruments and freehand sketching.
- 3 Reference publication relevant to this unit standard:
 NZS/AS 1100.101:1992 *Technical drawing – General principles*, available from Standards New Zealand at <http://www.standards.co.nz>.

Outcomes and evidence requirements

Outcome 1

Demonstrate knowledge of technical drawing for design and construction.

Evidence requirements

- 1.1 The content that makes up a set of technical drawings is described in terms of purpose.
 Range location, assembly, component, schedule.

- 1.2 Lines used on technical drawings are identified and their purpose described.
- Range outlines, dimension lines, hidden detail, centre lines, break lines, reference lines.
- 1.3 Symbols used on technical drawings are identified and their purpose described.
- Range symbols indicating – materials, doors, windows, fittings and furnishings, referencing.
- 1.4 Drawing methods are identified and described in terms of their practical application.
- Range one-point perspective, two-point perspective, isometric, oblique, third angle orthographic projection.

Outcome 2

Create sketches and technical drawings for design and construction.

Range third angle orthographic projections – elevations, plans, sections, details; pictorial projections – isometric, oblique, one-point perspective, two-point perspective.

Evidence requirements

- 2.1 Sketching techniques used accurately communicate design and construction.
- 2.2 Drawings communicate all construction information relevant to the intended project, and are in accordance with NZS/AS 1100.101:1992.
- Range terminology and abbreviations, materials, scale and layout of drawing sheets, use of drawing conventions, line weight, line quality, text dimensioning, referencing.
- 2.3 Drawings are stored in accordance with workplace practice.

Planned review date	31 December 2019
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	18 March 2011	31 December 2016
Review	2	22 May 2014	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>.

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.

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.