

<b>Title</b>	<b>Prepare working drawings for an engineering project</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>6</b>

<b>Purpose</b>	People credited with this unit standard are able to: interpret design sketches and technical information; determine layout, format, and end use requirements of a drawing; and produce working drawings.
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<b>Classification</b>	Engineering > Generic Engineering
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<b>Available grade</b>	Achieved
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### Guidance Information

- 1 The credit value of this unit standard has been calculated on the basis that people seeking credit have acquired knowledge and understanding of the engineering principles and practices involved.
- 2 Definitions  
*Design* refers to a fully integrated process controlling each stage in the creation of a new artifact (product, structure, machine, component or system);  
*company requirements* include the policy, procedures, and methodologies of the company. They include requirements documented in company and site health and safety plans, quality assurance documents and contract work programmes.
- 3 Standards relevant to this unit standard include, but are not limited to: NZS/AS 1100.501:2002 *Technical drawing – Structural engineering drawing*; and IEC 60617 – *Graphical symbols for diagrams*.
- 4 The following note shall apply to the performance of all outcomes in this unit standard:  
 all activities must comply with any policies, procedures, and requirements of the organisations involved; the ethical codes and standards relevant to professional bodies; and any relevant cultural, legislative and/or regulatory requirements, which may include but are not limited to: the Treaty of Waitangi, Health and at Work Act 2015, Resource Management Act 1991, Building Act 2004, Copyright Act 1994, Contracts Enforcement Act 1956, and their subsequent amendments and regulations.

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### Outcomes and performance criteria

#### Outcome 1

Interpret design sketches and technical information.

**Performance criteria**

- 1.1 Interpretation demonstrates understanding of the component characteristics and functions of all elements of a design.
- 1.2 Interpretation demonstrates understanding of the technical information incorporated into the design.

**Outcome 2**

Determine layout, format, and end use requirements of a drawing.

**Performance criteria**

- 2.1 Elements of the layout are in accordance with job specifications, company requirements, and NZ standards.
- 2.2 Format is in accordance with job specifications, company requirements, and NZ standards.
- Range size, scale, title blocks.
- 2.3 Level of detail is determined in terms of end use requirements, and in accordance with job specifications, company requirements, and NZ standards.

**Outcome 3**

Produce working drawings.

**Performance criteria**

- 3.1 Working drawings are produced in accordance with company requirements, NZ standards, and job specifications using CAD equipment methods.

**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	24 February 1998	31 December 2020
Revision	2	7 June 2000	31 December 2020
Revision	3	19 February 2004	31 December 2020
Revision	4	14 July 2005	31 December 2020
Rollover and Revision	5	18 December 2006	31 December 2020
Review	6	24 January 2019	31 December 2020

<b>Consent and Moderation Requirements (CMR) reference</b>	0101
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

This unit standard is expiring