

<b>Title</b>	<b>Manually construct plane geometric shapes for engineering</b>		
<b>Level</b>	<b>2</b>	<b>Credits</b>	<b>3</b>

<b>Purpose</b>	People credited with this unit standard are able to manually construct plane geometric shapes for engineering.
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<b>Classification</b>	Mechanical Engineering > Engineering Drawing and Design
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<b>Available grade</b>	Achieved
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### Guidance Information

- 1 References  
 AS 1100.101:1992, *Technical drawing – General principles*;  
 AS 1100.201:1992, *Technical drawing – Mechanical engineering drawing*.  
 An abridgement of these standards, suitable for the purposes of this unit standard, is SAA/SNZ HB1: 1994, *Technical Drawing for students*. Available from Standards New Zealand.
- 2 Definition  
*Simple drawing instruments* – basic engineering drawing instruments such as compass, rules, set squares, and templates.
- 3 Assessment information  
 Assessment against this unit standard requires the construction of plane geometric shapes including rectangle, square, circle, ellipse, tangential arc, triangle, polygon(s), and parts thereof, using simple drawing instruments. The construction of shapes as defined will include the bisection of angles and lines, and the division of lines into equal parts.
- 4 Recommended skills and knowledge:  
 Unit 4434, *Demonstrate knowledge of basic geometric form in engineering*.

### Outcomes and performance criteria

#### Outcome 1

Manually construct plane geometric shapes for engineering.

#### Performance criteria

- 1.1 Geometric construction meets shape specification in accordance with AS 1100.
- 1.2 Construction process for the shapes meets requirements for method and accuracy in accordance with AS 1100.

<b>Replacement information</b>	This unit standard has been replaced by unit standard 29653.
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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#### Status information and last date for assessment for superseded versions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 October 1994	31 December 2011
Revision	2	14 April 1997	31 December 2011
Revision	3	5 January 1999	31 December 2011
Revision	4	23 May 2001	31 December 2011
Review	5	26 July 2004	31 December 2011
Rollover and Revision	6	20 March 2009	31 December 2016
Review	7	17 November 2011	31 December 2021
Review	8	15 September 2016	31 December 2021
Rollover	9	29 April 2021	31 December 2022

<b>Consent and Moderation Requirements (CMR) reference</b>	0013
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.