

<b>Title</b>	<b>Select, use, and care for engineering dimensional measuring equipment</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: select, use, and care for engineering dimensional measuring equipment.
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<b>Classification</b>	Mechanical Engineering > Engineering - Measurement
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<b>Available grade</b>	Achieved
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### Explanatory notes

- 1 Definition  
*Industry practice* – safe and sound trade practice generally accepted by competent persons within the mechanical engineering industry.
  
- 2 Assessment information  
Engineering dimensional measuring equipment may include but is not limited to – vernier callipers; internal, external, and depth micrometers; dial gauges; dial test indicators; height gauges; surface tables; steel rulers.  
Evidence is required for the selection, use, and care of vernier callipers and at least three other items of measuring equipment.

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### Outcomes and evidence requirements

#### Outcome 1

Select engineering dimensional measuring equipment.

#### Evidence requirements

- 1.1 Measuring equipment is selected, having regard to the geometry of the object to be measured, likely magnitude of dimensions, and required accuracy.
  
- 1.2 Measuring equipment is inspected for damage or faults, and supervisor advised.  
  

Range	damage and faults include but are not limited to – deformation, breakages, stickiness, not zeroing, missing parts, expired calibration.
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**Outcome 2**

Use engineering dimensional measuring equipment.

**Evidence requirements**

- 2.1 Measurements are quoted with an estimate of accuracy.
- 2.2 Measurements are validated by re-measurement with the same or alternate equipment.
- 2.3 Measuring equipment and objects to be measured are not damaged during measurement.
- 2.4 Measurements are recorded in accordance with industry practice.
- Range            number of decimal places, units, prefixes, symbols, accuracy.

**Outcome 3**

Care for engineering dimensional measuring equipment.

**Evidence requirements**

- 3.1 Measuring equipment is handled and stored in a manner that maintains its integrity.

<b>Planned review date</b>	31 December 2016
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**Status information and last date for assessment for superseded versions**

Process	Version	Date	Last Date for Assessment
Registration	1	23 May 1995	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	21 February 2005	31 December 2011
Rollover and Revision	6	12 February 2010	31 December 2014
Review	7	17 June 2011	N/A

<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>.

**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 (CMRs). 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.

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**Comments on this unit standard**

Please contact Competenz [qualifications@competenz.org.nz](mailto:qualifications@competenz.org.nz) if you wish to suggest changes to the content of this unit standard.