

<b>Title</b>	<b>Level mechanical machinery</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>3</b>

<b>Purpose</b>	<p>This unit standard, intended for on job assessment, is for people training in mechanical engineering trades.</p> <p>People credited with this unit standard are able to check mechanical machinery for level, and level mechanical machinery.</p>
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<b>Classification</b>	Mechanical Engineering > Maintenance and Diagnostics in Mechanical Engineering
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<b>Available grade</b>	Achieved
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<b>Prerequisite</b>	Unit 21912, <i>Apply safe working practices on an engineering worksite</i> , or demonstrate equivalent knowledge and skills.
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## Guidance Information

- 1 References
 

Health and Safety at Work Act 2015.  
*Fitting and Machining*, Culley, R (editor), 2010, 1998, RMIT publications/TAFE publications, Melbourne, ISBN: 9781921426780.
- 2 Definitions
 

*Accepted industry practice* – approved codes of practice and standardised procedures accepted by the wider mechanical engineering industry sectors as examples of best practice.

*Workplace procedures* – procedures used by the organisation carrying out the work and applicable to the tasks being carried out. Examples are – standard operating procedures, safety procedures, equipment operating procedures, codes of practice, quality management practices and standards, procedures to comply with legislative and local body requirements.
- 3 Recommended for entry
 

Unit 22898, *Demonstrate and apply knowledge of machine levelling and alignment*.

#### 4 Related unit standards

This unit standard is one of a machinery levelling and alignment set:

- Unit 22898, *Demonstrate and apply knowledge of machine levelling and alignment* (Level 3), an introductory unit standard that covers basic levelling and alignment knowledge and application.
- Unit 2408, *Align mechanical machinery* (Level 4).
- Unit 2409, *Level mechanical machinery* (Level 3).

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## Outcomes and performance criteria

### Outcome 1

Check mechanical machinery for level.

Range two items of machinery;  
two types of levelling equipment;  
examples of levelling equipment are – machine levels; lines; optical, electronic, laser; dumpy level; theodolite.

### Performance criteria

- 1.1 Procedures and equipment for checking level are identified.
- 1.2 Level tolerances are identified from manufacturer's specifications or accepted industry practice.
- 1.3 Levelling checks are carried out in accordance with manufacturer's specifications and accepted industry practice.

### Outcome 2

Level mechanical machinery.

Range machinery, and levelling equipment from outcome 1.

### Performance criteria

- 2.1 Reasons for errors in level are determined in accordance with accepted industry practice.  
  
Range examples are – soft foot, unstable surface, missing or broken machine mounts, insufficient depth of foundation, uneven foundation pads.
- 2.2 Machinery is levelled in accordance with manufacturer's specifications or accepted industry practice.
- 2.3 Machinery records are completed in accordance with workplace procedures.

<b>Planned review date</b>	31 December 2022
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#### Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	25 October 1994	31 December 2011
Revision	2	14 April 1997	31 December 2011
Revision	3	5 January 1999	31 December 2011
Revision	4	18 September 2001	31 December 2011
Review	5	28 April 2003	31 December 2011
Revision	6	25 July 2006	31 December 2011
Rollover	7	20 June 2008	31 December 2014
Review	8	15 April 2011	31 December 2022
Review	9	17 August 2017	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>.

#### 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.