

Title	Assemble mechanical components under supervision		
Level	2	Credits	2

Purpose	<p>This unit standard is for use in the training of mechanical engineering trades or assembly workers, and covers straight forward assembly and adjustment of mechanical components under supervision.</p> <p>People credited with this standard are, under supervision, able to prepare for assembly of mechanical components, assemble mechanical components, and test and store completed assemblies.</p>
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Classification	Mechanical Engineering > Mechanical Assembly
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Available grade	Achieved
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Guidance Information

- 1 Reference
Health and Safety at Work Act 2015.
- 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.
Instructions – written and/or, verbal instructions from the candidate’s supervisor. This may include worksite safety procedures, equipment operating procedures, job procedures, procedures for handling and disposal of materials, assembly drawings and specifications.
- 3 Assessment information
All activities must comply with relevant legislative and/or regulatory requirements, which include, but are not limited to, the Health and Safety at Work Act 2015.
- 4 Range
 - a Typical components – levers, bearings, seals, shafts, motors, chains, belts, pulleys, sprockets, frames, fasteners, keys.
 - b Tools – screw drivers, spanners, pliers, torque wrench, Allen keys; may involve use of specialised tools or jigs.

Outcomes and performance criteria

Outcome 1

Prepare for assembly of mechanical components under supervision.

Performance criteria

- 1.1 Assembly instructions are studied and details confirmed with the supervisor.
- 1.2 Tools and components are selected in accordance with instructions.
- 1.3 Relevant safety issues are identified and confirmed with the supervisor.
- 1.4 Components are cleaned in accordance with instructions.
- 1.5 Components ready for assembly are secured and/or stored in accordance with instructions.

Outcome 2

Assemble mechanical components under supervision.

Performance criteria

- 2.1 Use of tools is demonstrated in accordance with accepted industry practice.
- 2.2 Components are assembled in accordance with instructions.
- 2.3 Assembly is carried out without damage to components or injury to persons.
- 2.4 Adjustments are made to the assembled components in accordance with instructions.
- 2.5 Documents are completed in accordance with instructions.

Outcome 3

Test and store completed assemblies under supervision.

Performance criteria

- 3.1 Completed assemblies are tested to confirm operation and tolerances in accordance with instructions.
- 3.2 Completed assemblies are stored in accordance with instructions.

Planned review date	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	27 September 1994	31 December 2012
Revision	2	14 April 1997	31 December 2012
Revision	3	5 January 1999	31 December 2012
Revision	4	23 May 2001	31 December 2012
Review	5	20 June 2006	31 December 2022
Rollover	6	17 November 2011	31 December 2022
Review	7	17 August 2017	N/A

Consent and Moderation Requirements (CMR) reference

0013

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 if you wish to suggest changes to the content of this unit standard.