

Title	Operate and monitor a production engineering machine		
Level	2	Credits	4

Purpose	<p>This unit standard covers operation and monitoring of one of a wide range of engineering production machines used in the manufacture of components in a production environment.</p> <p>People credited with this standard are able to prepare to operate a production engineering machine; operate a machine and monitor production process; and remove and store products.</p>
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Classification	Mechanical Engineering > Engineering Machining and Toolmaking
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Available grade	Achieved
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Guidance Information

- 1 References

Health and Safety at Work Act 2015;
Best Practice Guidelines, Safe Use of Machinery, Worksafe, 2014.
- 2 Definition

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 Assessment Information
 - a 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.
 - b All activities must demonstrate safe working practices.
- 4 Range

Production engineering machines refer to machines based on any of the following or similar processes – bending, cutting, drilling, folding, forging, forming, grinding, milling, polishing, pressing, shaping, turning.

Outcomes and performance criteria

Outcome 1

Prepare to operate a production engineering machine.

Performance criteria

- 1.1 Verbal or written instructions are interpreted to confirm job requirements.
Range does not include working from drawings.
- 1.2 Machine is made safe to start for intended task in accordance with workplace procedures.
Range guards, personal protective equipment.
- 1.3 Cleaning, lubrication, and pre-start checks are carried out in accordance with workplace procedures.
- 1.4 Machine emergency shutdown procedures are explained in accordance with workplace procedures.

Outcome 2

Operate a machine and monitor production process.

Performance criteria

- 2.1 Machine is started in accordance with workplace procedures.
- 2.2 Machine is fed with material to maintain the required production.
- 2.3 Machine is monitored to ensure operational requirements are met.
- 2.4 Components produced by the machine are inspected and out-of-tolerance items identified.
Range visual, fixed gauge, direct reading measuring equipment.
- 2.5 Immediate supervisor is informed when corrective action is required.
- 2.6 Production data is recorded in accordance with workplace procedures.
- 2.7 Waste material is disposed of in accordance with workplace procedures.

Outcome 3

Remove and store products.

Performance criteria

- 3.1 Products are removed in accordance with workplace procedures.
- 3.2 Components are stored in accordance with workplace procedures.

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	17 January 1995	31 December 2012
Revision	2	14 April 1997	31 December 2012
Revision	3	13 November 1997	31 December 2012
Revision	4	5 January 1999	31 December 2012
Revision	5	25 September 2001	31 December 2012
Review	6	20 June 2006	31 December 2022
Rollover	7	17 November 2011	31 December 2022
Review	8	17 August 2017	N/A

Consent and Moderation Requirements (CMR) reference	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 if you wish to suggest changes to the content of this unit standard.