

<b>Title</b>	<b>Set mechanical production process machinery</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>12</b>

<b>Purpose</b>	People credited with this unit standard are able to: prepare for setting mechanical production process machinery; remove tooling from mechanical production process machinery; install and set up tooling on mechanical production process machinery; and verify and complete mechanical production process machinery setting.
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<b>Classification</b>	Manufacturing Skills > Manufacturing Processes
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<b>Available grade</b>	Achieved
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### Guidance Information

- 1 Legislation relevant to this unit standard includes but is not limited to the:
  - Health and Safety at Work Act 2015.
  - Resource Management Act 1991 and subsequent amendments.
  - Hazardous Substances and New Organisms Act 1996 and subsequent amendments.
  
- 2 Definitions
  - Accepted industry practice* refers to the approved codes of practice and standardised procedures accepted by the wider manufacturing industry as examples of best practice.
  - Job requirements* refer to specific requirements for the job at hand. These requirements may or may not be covered in the job documentation and may include special instructions, quality requirements expected by the customer, and/or production standards as set down by the workplace.
  - Workplace procedures* refer to procedures used by the organisation carrying out the work and applicable to the tasks being carried out. Examples are – standard operating procedures, site safety procedures, equipment operating procedures, codes of practice, quality management practices and standards, and procedures to comply with legislative and local body requirements.
  
- 3 Assessment information
  - a All activities and evidence must be in accordance with workplace procedures, and job requirements.
  - b This unit standard will be assessed on the basis of evidence of demonstrated and repeatable performance in the workplace.

#### 4 Range

*Machines* may include but are not limited to – those used for: cutting, slitting, pressing, casting, turning, rolling, forming, grinding, welding, seaming, surface coating, flanging, swaging, riveting, screwing, component fitting, lining, beading, strapping, bonding, wrapping, packaging.

*Tooling* may include changing parts used within tooling by specific worksites.

*Tooling removal* may include tool component changeover.

#### 5 Recommended skills and knowledge

Unit 4810, *Operate mechanical production process machinery in a manufacturing environment*, or demonstrate equivalent knowledge and skills.

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## Outcomes and performance criteria

### Outcome 1

Prepare for setting mechanical production process machinery.

#### Performance criteria

1.1 Product specifications and drawings are interpreted to establish setting requirements in accordance with accepted industry practice.

1.2 Personnel affected by the machine setting or isolation are advised.

Range may include but is not limited to – immediate location, neighbouring machines, team leader.

1.3 Machine is isolated as required and prepared for changeover.

### Outcome 2

Remove tooling from mechanical production process machinery.

#### Performance criteria

2.1 Machine safety devices are used.

2.2 Personal protective equipment is used.

2.3 Tooling components for removal are identified.

2.4 Equipment and fittings for tooling removal and refitting are selected.

2.5 Tooling is removed.

2.6 Tooling is cleaned, inspected, and condition is reported.

**Outcome 3**

Install and set up tooling on mechanical production process machinery.

**Performance criteria**

- 3.1 Tooling for installation is identified and verified.
- 3.2 Machine is prepared for tooling installation.
- 3.3 Tooling is installed and set up.

**Outcome 4**

Verify and complete mechanical production process machinery setting.

**Performance criteria**

- 4.1 Personnel affected by a test run are advised.
- Range may include but is not limited to – immediate location, neighbouring machines, team leader.
- 4.2 Machine is test run and output inspected.
- 4.3 Where required, tooling and machine adjustments are made until product conforms to specification.
- 4.4 Recording or reporting is carried out, and production terminology is used in accordance with accepted industry practice.
- Range may include but is not limited to – hard copy, electronic, verbal.

<b>Planned review date</b>	31 December 2025
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**Status information and last date for assessment for superseded versions**

Process	Version	Date	Last Date for Assessment
Registration	1	27 June 1995	31 December 2012
Revision	2	14 April 1997	31 December 2012
Revision	3	5 January 1999	31 December 2012
Review	4	26 July 2005	31 December 2014
Review	5	18 March 2011	31 December 2023
Review	6	26 August 2021	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>.

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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.