

<b>Title</b>	<b>Set up, control and monitor equipment to meet production requirements in a manufacturing operation</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>15</b>

<b>Purpose</b>	People credited with this unit standard are able to: demonstrate knowledge of production requirements; set up and test run, control and monitor equipment; and undertake ongoing production analysis and identify opportunities for improvement, in a manufacturing operation.
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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 include but are not limited to the: Health and Safety at Work Act 2015.  
Resource Management Act 1991 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.

*Manufacturing operation* refers to one or more workstations required to manufacture a product for internal or external customers, under the candidate's control.

*Resource* refers to materials and services (e.g. air, water, electricity) required for equipment operation.

*Set up* refers to the configuration of equipment and changes of components, accessories and fixtures to meet product specification and production requirements.

*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
 

All activities and evidence must be in accordance with workplace procedures and must be consistent with accepted industry practice and the generally accepted body of knowledge relating to manufacturing processes. Such knowledge is available in relevant training manuals and reference texts. No one textbook or other source of information is envisaged, as new approaches to manufacturing and manufacturing processes are published regularly.

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## Outcomes and performance criteria

### Outcome 1

Demonstrate knowledge of production requirements in a manufacturing operation.

#### Performance criteria

- 1.1 Production requirements are explained.
- Range production requirements include – process steps, equipment purpose and operation, product specifications, production schedule, resource requirements.
- 1.2 Equipment to be set up is identified and procedures for set up are located and explained.
- 1.3 Capability and capacity of identified equipment is explained in terms of production schedule and product specification requirements.

### Outcome 2

Set up and test run equipment to meet production requirements in a manufacturing operation.

#### Performance criteria

- 2.1 Environmental, health and safety hazards are identified, and the steps required to control them are explained and used.
- 2.2 Equipment and resource for the set up is prepared.
- 2.3 Set up is completed and unused resources and equipment are stored.
- 2.4 Equipment is test run to confirm the integrity of the set up, and product tested meets specification requirements.

### Outcome 3

Control and monitor equipment to meet production requirements in a manufacturing operation.

#### Performance criteria

- 3.1 Equipment line controls are set, monitored, and adjusted to meet production schedule and product specification requirements.
- 3.2 Equipment operation is monitored, and adjusted to meet production schedule and product specification requirements.
- 3.3 Equipment malfunctions are identified, corrected where applicable, and reported.

- 3.4 Environmental, health, safety, production, and housekeeping standards are monitored and maintained.
- 3.5 Production records and reports are completed and outcomes are communicated.

#### Outcome 4

Undertake ongoing production analysis and identify opportunities for improvement in a manufacturing operation.

#### Performance criteria

- 4.1 Achievements and shortfalls against target are identified and evaluated, and corrective action is identified.
- Range may include but is not limited to – manufacturing costs, breakdowns, out-of-specification product, product returns, resource management.
- 4.2 Any opportunities for improvements in production and quality in a manufacturing operation are identified.

<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	21 January 2016	31 December 2023
Review	2	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>.

#### 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.