

<b>Title</b>	<b>Demonstrate knowledge of establishing improvements in a manufacturing environment</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>4</b>

<b>Purpose</b>	People credited with this unit standard are able to: describe the benefits of continuous improvement in a manufacturing environment; demonstrate knowledge of output measures in a manufacturing environment; describe how continuous improvement systems are promoted in a manufacturing environment; and identify and describe opportunities for improvement in a manufacturing environment.
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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  
*Continuous improvement systems* refer to root cause analysis, fish bone diagram, or any other LEAN or continuous improvement tool used in manufacturing.  
*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.

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### Outcomes and performance criteria

#### Outcome 1

Describe the benefits of continuous improvement in a manufacturing environment.

#### Performance criteria

- 1.1 Benefits of continuous improvement are described in terms of cost savings, product quality, competitiveness, and safety.

## Outcome 2

Demonstrate knowledge of output measures in a manufacturing environment.

### Performance criteria

- 2.1 Quality or product requirements are described.
- Range may include but is not limited to – dimensions, volume, weight, performance, visual appearance.
- 2.2 Key performance indicators (KPIs) and their methods of measurement are described.
- Range KPIs may include but are not limited to – daily targets, rejection rates, tolerances.

## Outcome 3

Describe how continuous improvement systems are promoted in a manufacturing environment.

### Performance criteria

- 3.1 Procedures for identifying and reporting potential improvements are described in terms of methods or systems used.
- 3.2 Methods for implementing and updating workplace procedures for changes within operator's area of control are described.
- 3.3 Procedures for requesting and recommending improvements outside operator's area of control are described in terms of communication with relevant personnel.
- Range personnel may include but is not limited to – team leader, supervisor, maintenance, human resources, marketing, despatch.

## Outcome 4

Identify and describe opportunities for improvement in a manufacturing environment.

### Performance criteria

- 4.1 Examples of workplace improvements are identified, and the resulting benefits are described.
- Range examples may include but are not limited to – safety issues, communication methods, training procedures, equipment maintenance, product presentation, quality, volume; evidence of two examples is required;

workplace benefits may include but are not limited to – cost savings, product quality, competitiveness, safety.

- 4.2 Examples of workplace waste elimination or reduction are identified, and the resulting benefits are described.

Range examples of wastage may include but are not limited to – raw materials, finished product, expertise, time; evidence of two examples of wastage is required; workplace benefits may include but are not limited to – cost savings, product quality, competitiveness.

<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	26 July 2005	31 December 2012
Revision	2	24 August 2007	31 December 2014
Review	3	18 March 2011	31 December 2023
Review	4	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.