

<b>Title</b>	<b>Demonstrate knowledge of techniques to generate, evaluate, scope and present new ideas in a manufacturing operation</b>		
<b>Level</b>	<b>5</b>	<b>Credits</b>	<b>15</b>

<b>Purpose</b>	People credited with this unit standard are able to demonstrate knowledge of techniques to: generate new ideas; gather and analyse data to evaluate new ideas; and determine benefits and constraints relating to new ideas and report a proposal for implementation, 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 includes:  
Health and Safety at Work Act 2015.
- 2 Definition  
*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.
  - b Candidates are encouraged to refer to and use relevant literature and text such as any training manuals, the reference texts, relevant industry codes of practice, and standards.
- 4 Range  
New ideas may include but are not limited to – new production processes, new products, new quality processes;  
evidence of a minimum of one new idea is required.  
New idea must provide the potential for significant monetary gain relative to the size of the business.

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## Outcomes and performance criteria

### Outcome 1

Demonstrate knowledge of techniques to generate new ideas in a manufacturing operation.

#### Performance criteria

- 1.1 Techniques for generating new ideas are explained in terms of their application.
- Range evidence of a minimum of three techniques is required.
- 1.2 Two possible techniques for generating new ideas are selected and the reasons for the selections are explained in terms of their relevance to production or quality processes.
- 1.3 One technique is used in consultation with relevant stakeholders to generate a new idea to improve a production or quality process.

### Outcome 2

Demonstrate knowledge of techniques to gather and analyse data to evaluate new ideas in a manufacturing operation.

#### Performance criteria

- 2.1 Techniques for gathering and analysing information are explained in terms of their application.
- Range evidence of a minimum of three techniques is required.
- 2.2 Possible techniques for gathering and analysing information are selected and the reasons for the selections are explained in terms of their relevance to production or quality processes.
- Range evidence of a minimum of two techniques is required.
- 2.3 A technique for gathering and analysing information is used to evaluate, quantify and develop the scope for implementing the new idea generated for performance criterion 1.3.

### Outcome 3

Demonstrate knowledge of techniques to determine benefits and constraints relating to new ideas and report a proposal for implementation in a manufacturing operation.

## Performance criteria

- 3.1 Techniques to determine benefits and constraints relating to the new idea generated for performance criteria 1.3 are identified and explained in terms of their application.
- 3.2 Benefits and constraints are identified using techniques identified in performance criteria 3.1 and explained in terms of their impact on the idea scope developed as part of performance criterion 2.3.
- Range evidence of a minimum of two benefits and two constraints are required.
- 3.3 A cost analysis for the implementation of the new idea is developed.
- Range cost analysis may include but is not limited to – value versus volume, impact loss, risk analysis, capital expenditure.
- 3.4 A report is written and a presentation prepared to outline the proposal for implementation of the new idea to management.

<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	19 November 2015	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.