

Title	Demonstrate knowledge of the operation, measurement, and control of an industrial process		
Level	5	Credits	10

Purpose	<p>This unit standard is intended for use in the training and assessment of industrial measurement and control. Candidates who have achieved this unit standard can apply their knowledge in a practical application.</p> <p>People credited with this unit standard are able to demonstrate and apply knowledge of the:</p> <ul style="list-style-type: none"> – operation of an industrial process; and – measurement and control of an industrial process.
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Classification	Industrial Measurement and Control > Industrial Measurement and Control - Maintenance
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Available grade	Achieved
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Guidance Information

- 1 This unit standard has been designed for learning and assessment on-job. Relevant information for assessment purposes of this unit standard must be gathered on-site. Simulations are not permitted.
- 2 References
Hazardous Substances and New Organisms Act 1996;
Health and Safety at Work Act 2015, and associated regulations;
and all subsequent amendments and replacements.
- 3 Definition
Industry practice – those practices that competent practitioners within the industry recognise as current industry best practice.
- 4 It is recommended that assessment be based on:
 - a a report produced by the candidate, based on work experience on an actual industrial process; and
 - b discussions with the assessor relating to the industrial process.
- 5 Range
All activities and evidence presented for all outcomes and performance criteria in this unit standard must be in accordance with legislation, standards, industry practice; and where appropriate, manufacturers' instructions, specifications, and data sheets.

Outcomes and performance criteria

Outcome 1

Demonstrate and apply knowledge of the operation of an industrial process.

Performance criteria

- 1.1 Operation of the process is described in terms of inputs, outputs, and changes to materials and energy.
- 1.2 Dynamic effects associated with the process are applied to a practical application.
- Range transfer and distance/velocity lags, process gain, non-linearity, noise, disturbances.
- 1.3 Health, safety, and plant protection issues are investigated and addressed.
- Range severity and probability of hazards, statutory protection required.

Outcome 2

Demonstrate and apply knowledge of the measurement and control of an industrial process.

Performance criteria

- 2.1 The measurement and control scheme for the process is described.
- 2.2 References to process measurements and controls required for plant safety are described.
- 2.3 References to process measurements required for effective plant operation are described.
- 2.4 Factors affecting overall plant performance and operation are described, and recommendations for improvement where identified are outlined.
- 2.5 Applicable codes of practice are identified and described.

This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	28 August 2002	31 December 2013
Review	2	21 August 2009	31 December 2027
Rollover and Revision	3	28 June 2018	31 December 2027
Review	4	30 January 2025	31 December 2027

Consent and Moderation Requirements (CMR) reference	0003
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.