

Title	Maintain pressure measurement devices		
Level	4	Credits	10

Purpose	People credited with this unit standard are able to: <ul style="list-style-type: none"> – reconfigure or calibrate pressure measurement devices; and – service and test pressure measurement devices and systems.
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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 developed for learning and assessment in a workplace environment.
- 2 References
 ANSI/ISA-51.1-1979 (R1993) *Process Instrumentation Terminology*;
 Electricity Act 1992;
 Electricity (Safety) Regulations 2010;
 Health and Safety at Work Act 2015 and associated regulations;
 ISSN 0114-0663, *New Zealand Electrical Codes of Practice*, available from Worksafe, <https://worksafe.govt.nz/>;
 and their subsequent amendments and replacements.
- 3 Definitions
Industry requirements – includes all asset owner requirements; manufacturers' specifications; enterprise requirements which cover the documented workplace policies, procedures, specifications, and business requirements; and quality management requirements relevant to the workplace in which the assessment is carried out.
Service – planned activity during normal operation that involves inspection, cleaning, testing, adjusting, or making minor repairs to a piece of equipment to ensure that it works properly.
- 4 Recommended skills and knowledge: Unit 2630, *Demonstrate knowledge of pressure measurement systems used in industry*; Unit 28082, *Demonstrate knowledge of transducers and strain gauges and their applications in industrial measurement*; Unit 28078, *Demonstrate knowledge of industrial measurement processes, standards, and calibration*.

Outcomes and performance criteria

Outcome 1

Reconfigure or calibrate pressure measurement devices.

Range one differential pressure transmitter, one pressure gauge, one pressure switch.

Performance criteria

1.1 Identify type and cause of typical errors.

Range may include but is not limited to – zero, span, component wear.

1.2 Select test equipment according to accuracy and range of devices.

Range may include but is not limited to – deadweight tester, manometer, air test equipment, dedicated test equipment.

1.3 Explain and follow safe work procedures.

Range may include but is not limited to – process isolation, loop isolation.

1.4 Calibrate or reconfigure devices, as specified by the data sheet.

Range devices may include but is not limited to – transmitter, gauges, pressure switches;
calibration may include but not limited to – zero, span, linearity, head correction.

1.5 Document test results in accordance with industry requirements.

Outcome 2

Service and test pressure measurement devices and systems.

Range one differential pressure transmitter, one pressure gauge, one pressure switch.

Performance criteria

2.1 Locate, interpret, and apply technical information for servicing equipment.

2.2 Explain and follow safe work procedures.

Range may include but is not limited to – isolation, filled systems, chemical pressure.

2.3 Service and test pressure measurement devices to ensure correct and continued operation.

Range may include but is not limited to – tools, materials, parts, techniques (including tests), specifications.

2.4 Produce reports and documentation in accordance with industry requirements.

Planned review date	31 December 2021
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	31 October 1995	31 December 2013
Revision	2	30 October 1997	31 December 2013
Revision	3	3 April 2001	31 December 2013
Review	4	22 June 2001	31 December 2013
Review	5	19 May 2008	31 December 2019
Review	6	21 November 2013	N/A
Rollover and Revision	7	28 June 2018	N/A

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>.

Comments on this unit standard

Please contact The Skills Organisation reviewcomments@skills.org.nz if you wish to suggest changes to the content of this unit standard.