

Title	Install and test transducers		
Level	4	Credits	2

Purpose	People credited with this unit standard are able to: <ul style="list-style-type: none"> – install transducers; and – test transducers.
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Classification	Electrical Engineering > Electrical Installation and 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 on-job.
- 2 Definitions
 - Industry practice* – those practices that competent practitioners within the industry recognise as current industry best practice.
 - RTD* – resistance temperature detector.
 - Safe and sound practice* – as it relates to the installation of electrical equipment is defined in AS/NZS 3000:2007, *Electrical Installations (known as the Australian/New Zealand Wiring Rules)*.
- 3 Range
 - a Candidates may refer to current legislation and Standards during assessment.
 - b Demonstration of safe working practices and installation in accordance with *safe and sound practice* are essential components of assessment of this unit standard.
 - c All activities and evidence presented for all outcomes and performance criteria in this unit standard must be in accordance with:
 - i legislation;
 - ii policies and procedures;
 - iii ethical codes;
 - iv Standards – may include but are not limited to those listed in Schedule 2 of the Electricity (Safety) Regulations 2010;
 - v applicable site, enterprise, and industry practice; and,
 - vi where appropriate, manufacturers’ instructions, specifications, and data sheets.

Outcomes and performance criteria

Outcome 1

Install transducers.

Range any three of – pressure, temperature, level, proximity, motion, flow.

Performance criteria

1.1 Mount transducers correctly in terms of orientation and spacing for the application required.

1.2 Connect transducers and ancillary equipment.

Range polarity, type of cable, earthing, electrical isolation.
may include but is not limited to – pipework and tubing.

Outcome 2

Test transducers.

Performance criteria

2.1 Select transducer test equipment in accordance with the type of transducer.

Range transducers – thermocouple, RTD, pressure transmitter, proximity detector, level sensor;
test equipment may include – multimeter, oscilloscope, manufacturers instruction, thermocouple simulator, RTD simulator, pressure calibrator.

2.2 Test transducer operation.

Range at least three of – thermocouple, RTD, pressure transmitter, proximity detector, level sensor, flow transmitter.

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	30 April 1997	31 December 2013
Revision	2	3 April 2001	31 December 2013
Review	3	26 May 2005	31 December 2021
Rollover and Revision	4	15 March 2012	31 December 2021
Revision	5	15 January 2014	31 December 2021
Review	6	21 July 2016	31 December 2025
Revision	7	16 March 2017	31 December 2025
Review	8	24 March 2022	31 December 2025

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>.