

Title	Test and adjust electronic products in electronic manufacturing		
Level	4	Credits	20

Purpose	<p>This unit standard covers testing and adjusting of electronic products in the assembly environment of electronic manufacturing. Diagnosis of identified faults is not covered.</p> <p>People credited with this unit standard are able to:</p> <ul style="list-style-type: none"> –set up the test environment; and –conduct electronic product tests.
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Classification	Electronic Engineering > Electronic Manufacturing
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Available grade	Achieved
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Guidance Information

- 1 For visual inspections of electronic products refer to Unit 12587, *Inspect electronic products visually*. For go/no-go testing refer to Unit 12588, *Conduct go/no-go testing of electronic products in electronic manufacturing*.
- 2 **Definitions**
electronic products – what the enterprise manufactures. These could be complete products intended for end users; or sub assemblies, printed circuit boards, or components, for use in other manufacturing processes.
testing and performance adjustments – covers measurement and adjustment of physical quantities at specified points in the product, using written procedures or computer controlled processes, to verify and optimise the quality of the electronic product.
- 3 Candidates are expected to be able to handle, calibrate, and operate a range of common test equipment including meters, oscilloscopes, signal generators, and tracers, as determined by their work environment.
- 4 **Range**
evidence of testing of at least four examples of three or more different products is required.
- 5 **Reference**
Health and Safety in Employment Act 1992.

- 6 The following apply to all outcomes of this unit standard:
- a all activities are to be completed and reported within agreed timeframes;
 - b all work practices must meet worksite's documented quality management requirements;
 - c all activities must comply with policies, procedures and requirements of the enterprises involved; and any relevant legislative and/or regulatory requirements, which include, but are not limited to, the Health and Safety in Employment Act 1992.
- 7 People who are registered as physically disabled may achieve this unit standard with exemption from the requirements of outcome 1 only.

Outcomes and performance criteria

Outcome 1

Set up the test environment.

Performance criteria

- 1.1 The selection and setup of test instrumentation comply with test instructions.
- 1.2 Instrumentation is calibrated according to calibration instructions.
- 1.3 The test environment meets enterprise safety requirements.

Range workplace, equipment, setup, access.

Outcome 2

Conduct electronic product tests.

Performance criteria

- 2.1 Test process follows supplied instructions.
- 2.2 Product integrity is not affected by handling, testing, or performance adjustments.
Range appearance, electrostatic discharge (ESD), functionality, performance.
- 2.3 Specified performance adjustments deliver required product performance.
Range adjustments may include operation, tuning, setting of signal or power levels, or other specified requirements.
Evidence is required for three different types of adjustment.
- 2.4 Products with defects or sub-standard performance are processed in accordance with enterprise procedures.
- 2.5 Test results are recorded in accordance with enterprise procedures.

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	24 February 1998	31 December 2021
Review	2	28 June 1999	31 December 2021
Review	3	23 November 2003	31 December 2021
Rollover and Revision	4	19 March 2010	31 December 2021
Review	5	26 July 2018	31 December 2021

Consent and Moderation Requirements (CMR) reference

0003

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.