

Title	Identify electronic components		
Level	2	Credits	5

Purpose	<p>This unit standard covers the identification of electronic components used in the electronic manufacturing environment. This includes identifying component parameters such as type, size, ratings, and connections of given components, and matching components against their representation in production line documentation or circuit diagrams.</p> <p>People credited with this unit standard are able to:</p> <ul style="list-style-type: none"> –identify component parameters; and –match real components to their representation on production line documentation or circuit diagrams.
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Classification	Electronic Engineering > Electronic Manufacturing
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Available grade	Achieved
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Guidance Information

None.

Outcomes and performance criteria

Outcome 1

Identify component parameters.

Range parameters – type, size, type number, rating, connections; identification of 15 different components from candidate’s production environment is required.

Performance criteria

1.1 Types of components are identified.

Range typical types – resistors, capacitors, diodes, integrated circuits, thermistors, transistors, potentiometers, light emitting resistors, transformers, coils, relays, opto-electronic devices, small motors.

1.2 Size, rating, type number, and connections are identified, as appropriate for the component.

Range size – for instance values of resistance or capacitance;
 type number – of active devices such as transistors, diodes, and integrated circuits;
 rating – where readily identifiable;
 connections – where these are important, e.g. electrolytic capacitors, diodes, transistors, thyristors, transformers, coils.

Outcome 2

Match real components to their representation on production line documentation or circuit diagrams.

Performance criteria

2.1 Given the production line documentation or circuit diagrams, the corresponding components are selected from a pool of components.

Range evidence of matching 10 components selected from candidate’s production environment.

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Status information and last date for assessment for superseded versions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	23 November 2003	31 December 2021
Rollover and Revision	2	19 March 2010	31 December 2021
Review	3	26 July 2018	31 December 2021

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>.