

Title	Demonstrate knowledge of electrical theory for registration of electricians		
Level	4	Credits	6

Purpose	People credited with this unit standard are able to demonstrate knowledge of electrical theory for registration of electricians.
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Classification	Electrical Engineering > Electrical Standards and Statutes
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Available grade	Achieved
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Guidance Information

- 1 This unit standard has been developed for learning and assessment off job.
- 2 This unit standard is the capstone assessment of electrical theory required for registration as an electrician and is usually assessed near the end of the apprenticeship in the New Zealand Certificate in Electrical Engineering Theory and Practice (Trade) (Level 4) [Ref: 2388] and the New Zealand Certificate in Electrical Trade (Level 4) with strands in General Electrical, and Electricity Supply [Ref: 4204].
- 3 To achieve this unit standard, candidates must pass the EWRB Electrician Theory Examination, which is based on the requirements of the EWRB Teaching Guidelines for Electricians, and Essential Capabilities for Electrical Registration. The EWRB examination is the only valid assessment tool for this unit standard, and credit for this unit standard may only be awarded on evidence of passing the examination.
- 4 Achievement of this unit standard alone does not entitle trainees to legally perform prescribed electrical work without supervision. Until registered and licensed under the Electricity Act 1992, trainees are assisting, and must work under supervision when carrying out prescribed electrical work. Registration and licensing requirements are available at <https://www.ewrb.govt.nz/>.
- 5 Information about examination conditions, including which documents and equipment are allowed to be brought into the examination room are available from the EWRB website at <https://ewrb.aspeqexams.com/home>.
- 6 Definition
EWRB – Electrical Workers Registration Board.
- 7 References
EWRB Teaching Guidelines for Electricians (2011);
EWRB Essential Capabilities for Electrical Registration (2021);
All references are available at the EWRB website <https://www.ewrb.govt.nz/>.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of electrical theory for registration of electricians.

Performance criteria

1.1 Present answers and explanations to questions relating to electrical theory.

Range may include but is not limited to – health and safety, fundamental principles, power systems, conductors, circuits, switches and switchboards, accessories, earthing, electrical motors, testing, transformers, hazardous and specialist areas, design, electrical calculations.

Planned review date	31 December 2026
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	26 May 2005	31 December 2011
Review	2	19 June 2009	31 December 2011
Review	3	17 June 2011	31 December 2021
Review	4	21 July 2016	31 December 2027
Review	5	24 March 2022	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 Waihanga Ara Rau Construction and Infrastructure Workforce Development Council at qualifications@waihanga.nz if you wish to suggest changes to the content of this unit standard.