

Title	Demonstrate intermediate knowledge for working in electrical trades		
Level	3	Credits	1

Purpose	People credited with this unit standard are able to demonstrate intermediate knowledge for working in electrical trades.
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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 covers the capstone assessment of intermediate knowledge of legislation, electrical theory and its application and is expected to be assessed towards the end of the second year of training in electrical trades. For example, people enrolled 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], or people enrolled in the New Zealand Certificate in Electrical Engineering Theory (Level 3) [Ref: 2387].

For the purposes of this unit standard, *intermediate knowledge* is associated with the theory unit standards assessed in years one and two of the New Zealand Certificate in Electrical Trade (Level 4) with strand in General Electrical [Ref: 4204].

For a list of unit standards assessed in year one, refer to Unit 32619, *Demonstrate fundamental knowledge for working in electrical trades*.

Unit standards assessed in year two are:

Unit 32620, *Demonstrate knowledge of electrical plans, switching circuits, and lighting systems*;

Unit 32621, *Demonstrate knowledge of wiring support systems and cable installation*;

Unit 32622, *Demonstrate knowledge of the national supply grid, MEN system, and earthing*;

Unit 32623, *Demonstrate knowledge of circuit protection and distribution board wiring*;

Unit 32624, *Demonstrate knowledge of electrical installation testing, fault finding, and rectification of discovered faults*;

Unit 32625, *Demonstrate knowledge of damp situations, SELV and PELV systems, and single-phase transformers*;

Unit 32626, *Demonstrate knowledge of capacitors, inductors, and electronics in the electrical trade*.

- 3 To achieve this unit standard, candidates must pass the Workforce Development Council (WDC) capstone assessment, which is not an Electrical Workers Registration Board (EWRB) assessment. It is set and moderated by the WDC, or as delegated by the WDC. The WDC capstone assessment 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 assessment.
- 4 Achievement of this unit standard 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.
- 5 Range
- a Candidates may refer to current legislation and Standards during assessment.
 - b 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

Demonstrate intermediate knowledge for working in electrical trades.

Performance criteria

- 1.1 Present answers in response to questions relating to working in electrical trades.

Range may include but is not limited to – legislation, electrical theory, electrical practice.

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	21 July 2016	31 December 2027
Review	2	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.