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| Title | Explain regulatory requirements for installing and servicing extra-low and low voltage customer premises systems | | |
| Level | 3 | Credits | 5 |

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| Purpose | <p>This unit standard covers knowledge of the regulatory requirements for electrotechnology installation and servicing practices and procedures for basic extra low voltage and low voltage customer premises systems cabling, equipment, systems, and services.</p> <p>People credited with this unit standard are able to: explain regulatory requirements for installing and servicing extra-low and low voltage customer premises systems.</p> |
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| Classification | Electrical Engineering > Electrotechnology |
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| Available grade | Achieved |
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Guidance Information

- 1 This unit standard has been designed for learning and assessment off-job.
- 2 References
 - AS/NZS ISO/IEC 15018:2019, *Information technology - Generic cabling for homes*;
 - AS/NZS 3000:2007– *Electrical installations (known as the Australia/New Zealand Wiring Rules)*;
 - AS/NZS 3080:2013, *Information technology - Generic cabling for commercial premises*;
 - TIA/EIA-568A – Commercial Building Wiring Standard;
 - Building Act 2004;
 - Electricity (Safety) Regulations 2010;
 - Electricity Act 1992;
 - Health and Safety at Work Act 2015;
 - Local Body regulations;
 - Private Security Personnel and Private Investigators Act 2010;
 - Telecommunications Act 2001;
 - Resource Management (National Environmental Standards for Telecommunication Facilities) Regulations 2016;
 - Telecommunications Carriers' Forum *Code for Residential, SOHO and Multi-dwelling Premises Wiring (Premises Wiring Code of Practice)* (2011) available at; <https://1library.net/document/zp7jv37z-telecommunications-carriers-residential-dwelling-premises-wiring-premises-practice.html>;
 - and all subsequent amendments and replacements.

3 Definitions

EME – electromagnetic emissions.

Industry practice – those practices that competent practitioners within the industry recognise as current industry best practice.

4 Range

- a The assessment of this unit standard must be related to the candidate's area of workplace practice, and must be completed within industry acceptable time frames.
- 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, manufacturer instructions, specifications, and data sheets.

Outcomes and performance criteria

Outcome 1

Explain regulatory requirements for electrotechnology servicing and installation practices and procedures.

Performance criteria

- 1.1 Explain regulatory requirements for electrotechnology servicing and installation practices and procedures.

Range Acts – Telecommunications Act, Building Act, Electricity Act, Resource Management Act, Private Security Personnel and Private Investigators Act;
impacts may include but are not limited to – requirements for registration, requirement to seek consent.

- 1.2 Explain regulations impacting on the installation of equipment in terms of the requirements they impose on equipment installations.

Range regulations – local body by-laws, Electricity (Safety) Regulations, Resource Management (National Environmental Standards for Telecommunications Facilities) Regulations, Building Regulations; requirements may include but are not limited to – electrically safe, compliant with AS/NZS 3000: 2007, prescribed electrical work, penalties, wall penetration requirements, seismic strength, load bearing, fire stopping, permitted hole sizes in structural materials, EME requirements, noise limits, protection of trees and vegetation, protection of heritage sites, antenna installation and replacements, water disbursement.

1.3 Explain Standards, Codes of Practice, and acceptable solutions as tools to assist in compliance with Acts and regulations.

Range may include but is not limited to – New Zealand Standards, international Standards, Telecommunications Carriers’ Forum, Building Code, Electrical Codes of Practice, New Zealand Security Association Codes of Practice, Acceptable Solutions, Private Security Personnel and Private Investigators Act.

1.4 Explain environmental conditions that must be considered to comply with regulatory requirements when performing installations.

Range moisture ingress, water disbursement, insect and vermin ingress, corrosion, ventilation, equipment protection, cable protection, lightning protection, notifiable substances.

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| Planned review date | 31 December 2027 |
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Status information and last date for assessment for superseded versions

| Process | Version | Date | Last Date for Assessment |
|--------------|---------|------------------|--------------------------|
| Registration | 1 | 14 December 2017 | 31 December 2024 |
| Review | 2 | 2 March 2023 | N/A |

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| 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@waihangaararau.nz if you wish to suggest changes to the content of this unit standard.