

<b>Title</b>	<b>Install network premises cabling systems</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>4</b>

<b>Purpose</b>	<p>This unit standard covers the necessary introductory skills required to install and test network data cabling in domestic, residential, industrial, or commercial premises.</p> <p>People credited with this unit standard are able to:</p> <ul style="list-style-type: none"> <li>– install terminate, and test basic network data cabling;</li> <li>– explain fundamental principles of network data cabling.</li> </ul>
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<b>Classification</b>	Electrical Engineering > Electrical Installation and Maintenance
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<b>Available grade</b>	Achieved
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### Guidance Information

- 1 This unit standard has been developed for learning and assessment on-job. However, it may be assessed in a classroom, workshop, or in a simulated work environment.
- 2 Definitions
 

*Cable* – copper.

*Industry practice* – those practices that competent practitioners within the industry recognise as current industry best practice. Includes *AS/NZS 11801.1:2019 Information Technology - Generic cabling for customer premises: Part 1: General requirements*.

*PoE* – Power over Ethernet

*Safe and sound practice* – as it relates to the installation of electrical equipment is defined in AS/NZS 3000:2007, *Electrical Installations (known as the Australian/New Zealand Wiring Rules)* or its replacement.
- 3 Range
  - a Candidates may refer to current legislation and Standards during assessment.
  - b Demonstration of safe working practices and installation in accordance with *safe and sound practice* are essential components of assessment of this unit standard.



- c 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 *AS/NZS 11801.1:2019 Information Technology - Generic cabling for customer premises: Part 1: General requirements;*
  - vi applicable site, enterprise, and industry practice; and,
  - vii where appropriate, manufacturers' instructions, specifications, and data sheets.

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## Outcomes and performance criteria

### Outcome 1

Install, terminate, and test basic network data cabling.

#### Performance criteria

1.1 Use appropriate tools to install and terminate cables.

Range includes but is not limited to – installing data cable support systems and flush boxes; installing and securing data cables; terminating data cables using RJ45.

1.2 Perform basic tests.

Range includes but is not limited to - continuity and failed wire map testing.

### Outcome 2

Explain fundamental principles of network data cabling.

#### Performance criteria

2.1 Explain fundamental principles of network data cabling in relation to premise data cabling installation.

Range includes but is not limited to – cable length, segregation from other services, selection of cable type for environmental conditions and application, cabling pathways, PoE calculations for maximum cable length.



<b>Planned review date</b>	31 December 2029
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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
Revision	2	16 March 2017	31 December 2027
Review	3	24 March 2022	31 December 2027
Rollover and Revision	4	25 May 2023	31 December 2027
Review	5	28 November 2024	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	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](mailto:qualifications@WaihangaAraRau.nz) if you wish to suggest changes to the content of this unit standard.