

<b>Title</b>	<b>Install computer networking infrastructure 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, test, and document voice and data cabling in a domestic and commercial environment.</p> <p>People credited with this unit standard are able to:</p> <ul style="list-style-type: none"> <li>– install basic computer network cabling;</li> <li>– install structured network cabling; and</li> <li>– connect PCs to network 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.
- 2 Definitions
  - Cable* – coaxial, copper, optical fibre.
  - Coaxial cable* – includes 10Mbps baseband coaxial cable (Thinnet) (10Base-2) and 10Mbps baseband coaxial cable (Thicknet) (10Base-5).
  - Industry practice* – those practices that competent practitioners within the industry recognise as current industry best practice.
  - 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)*.
- 3 Range
  - a Candidates are expected to express calculated values in the relevant Système International (SI) units, including multiples and sub-multiples (pico, nano, micro, milli, kilo, mega, etc) and be able to convert between them.
  - b Candidates may refer to current legislation and Standards during assessment.
  - c Demonstration of safe working practices and installation in accordance with *safe and sound practice* are essential components of assessment of this unit standard.
  - d 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.

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## Outcomes and performance criteria

### Outcome 1

Install basic computer network cabling.

#### Performance criteria

1.1 Use cabling tools to install computer network cabling.

Range may include but is not limited to – crimp tools, punch down tools, cable stripping tools, specialised tools for terminations. evidence of three is required.

### Outcome 2

Install structured network cabling.

Range may include but is not limited to – rough-in, trim-out, finishing phases; equipment racks; trays and runways; cable reels; testing; documentation. evidence of two is required.

#### Performance criteria

2.1 Install, terminate, and test cables in accordance with structured network cabling specifications.

### Outcome 3

Connect PCs to network cabling.

#### Performance criteria

3.1 Connect PCs to a network via Ethernet and test to confirm operation.

Range may include but is not limited to – patch cables, peer-to-peer network, hubs, switches, wireless.

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**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	21 July 2016	31 December 2025
Revision	2	16 March 2017	31 December 2025
Review	3	24 March 2022	31 December 2025

<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>.

This unit standard is expiring