

Title	Install computer networking infrastructure systems		
Level	4	Credits	4

Purpose	<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"> – install basic computer network cabling; – install structured network cabling; and – connect PCs to network cabling.
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Classification	Electrical Engineering > Electrical Installation and Maintenance
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Available grade	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.

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.

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 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

Consent and Moderation Requirements (CMR) reference

0003

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.