

40117 Connect enterprise network equipment and field devices using patch cables

Kaupae Level	3
Whiwhinga Credit	5
Whāinga Purpose	<p>This skill standard recognises the skills required to connect enterprise network equipment and field devices using patch cables.</p> <p>This skill standard aligns with the New Zealand Certificate in Data Cabling (Level 3) [Ref: 5057].</p>

Hua o te ako me Paearu aromatawai | Learning outcomes and assessment criteria

Hua o te ako Learning outcomes	Paearu aromatawai Assessment criteria
1. Select and install patch cables to connect enterprise network equipment within cabinets or racks.	a. Enterprise network equipment is connected with patch cables following a schedule or client requirements.
	b. Selected patch cables are fit for purpose.
	c. Patch cables are accurately labelled, and tidy cable management is implemented.
2. Select and install patch cables to connect field devices to field outlets.	a. Field devices are connected to field outlets with fit for purpose patch cables.

Pārongo aromatawai me te taumata paearu | Assessment information and grade criteria

Assessment specifications:

Assessment evidence must be from workplaces where the scope of work provides the opportunity to demonstrate the skills and knowledge in environments containing enterprise network equipment, patch panels, field outlets, and a variety of field device types.

Enterprise network equipment may include commercial grade switches, routers, wireless access points (WAPs), Optical Network Terminals (ONTs), firewalls and other security or commercial network devices. It does not include all-in-one wireless/switch/routers typically used in homes.

Fit-for-purpose patch cables are the appropriate length, colour, and type to comply with industry standards and client requirements.

Assessment evidence for this standard must comply with industry standards, client requirements, and meet worksite health and safety requirements.

Ngā momo whiwhinga | Grades available

Achieved

Ihirangi waitohu | Indicative content**Selecting and installing patch cables**

- Understanding and following a patching schematic.
- Patching network equipment in cabinets or racks.
- Patching field devices to field outlets.
- Patch cable length, colour, and cable types.

Labelling and cable management

- Labelling patch cables.
- Patch cord cable management.

Rauemi | Resources

None

Pārongo Whakaū Kouna | Quality assurance information

Ngā rōpū whakatau-paerewa Standard Setting Body	Waihanga Ara Rau Construction and Infrastructure Workforce Development Council
Whakaritenga Rārangi Paetae Aromatawai DASS classification	Engineering and Technology > Telecommunications > Telecommunications - Service Delivery
Ko te tohutoro ki ngā Whakaritenga i te Whakamanatanga me te Whakaōritenga CMR	CMR 0101

Hātepe Process	Putanga Version	Rā whakaputa Date	Rā whakamutunga mō te aromatawai Last date for assessment
Rēhitatanga Registration	1	27 June 2024	N/A
Kōrero whakakapinga Replacement information	N/A		
Rā arotake Planned review date	31 December 2029		

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 skill standard.