

41180 Install, tension, and terminate wires in a traction line network

Kaupae Level	4
Whiwhinga Credit	15
Whāinga Purpose	This skill standard is intended for people who are working in a traction line mechanic role on traction line networks. People with this skill standard will be able to install, tension, and terminate wires in a traction line network. This skill standard aligns with the New Zealand Certificate in Traction Line Networks (Level 4) [Ref: 3988].

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

Hua o te ako Learning outcomes	Paearu aromatawai Assessment criteria
1. Determine the procedures used to install, tension, and terminate traction wires.	a. Identify the purpose of the procedure, the equipment needed and the method(s) used.
	b. Describe how to measure the sag tension of traction wires.
2. Install, tension, and terminate wires in a traction line network.	a. Develop and implement a worksite and safety plan to align with the scope of work determined within asset owner's requirements.
	b. Install, tension and terminate traction wire to the design standard, and complete job record.

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

Assessment specifications:

Candidates must be capable of consistently installing, tensioning, and terminating traction wires.

Candidates must be capable of using equipment to apply sag tension to traction wires using calculation, sag chart, dynamometer, and balanced weights.

A worksite and safety plan must show consideration of asset owner's requirements with reference to relevant company policies and procedures, work instructions, product quality specifications, and legislative requirements.

Ngā momo whiwhinga | Grades available

Achieved

Ihirangi waitohu | Indicative content

N/A

Rauemi | Resources

- Electricity Act 1992.
- Electricity (Safety) Regulations 2010.
- *Safety Manual – Electricity Industry* (SM-EI) available from www.eea.co.nz.
- ECP 34 - New Zealand Electrical Code of Practice for Electrical Safe Distances (NZECP 34:2001).

Pārongo Whakaū Kounga | Quality assurance information

Ngā rōpū whakatau-paerewa Standard Setting Body	Energy and Infrastructure Industry Skills Board
Whakaritenga Rārangi Paetae Aromatawai DASS classification	Engineering and Technology > Electricity Supply > Electricity Supply - Distribution Networks
Ko te tohutoro ki ngā Whakaritenga i te Whakamanatanga me te Whakaōritenga CMR	0120

Hātepe Process	Putanga Version	Rā whakaputa Review Date	Rā whakamutunga mō te aromatawai Last date for assessment
Rēhitatanga Registration	1	28 May 2026	N/A
Kōrero whakakapinga Replacement information	This skill standard replaced unit standards 31965 and 31966.		
Rā arotake Planned review date	31 December 2030		

Please contact Energy and Infrastructure Industry Skills Board qualifications@energyinfra-skills.nz if you wish to suggest changes to the content of this skill standard.