

41184**Install or repair earthing and bonding systems 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 or repair earthing and bonding systems 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 purpose of earthing and bonding systems in a traction line network.	a. Interpret traction network earthing and bonding drawings.
	b. Describe risk zones for earthing and bonding.
	c. Describe testing requirements for earthing and bonding.
	d. Describe earthing and bonding defects in terms of their causes and hazards.
2. Install or repair earthing and bonding systems 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 or repair, and test earthing and bonding system to asset owner's requirements.
	c. Install or repair, and test earthing and bonding system to design standard, and complete job record.

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

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 Kouna | 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 31971 and 31972.		
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.