

<b>Title</b>	<b>Plan and carry out maintenance on transmission grid assets</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>10</b>

<b>Purpose</b>	<p>People credited with this unit standard are able to:</p> <ul style="list-style-type: none"> <li>• plan and carry out maintenance on transmission grid assets;</li> <li>• identify and apply earthing and bonding to lines and equipment before maintenance of transmission assets is undertaken; and</li> <li>• carry out corrective maintenance to electricity structures.</li> </ul> <p>This unit standard partially fulfils the requirements for registration for transmission line mechanics with the Electrical Workers Registration Board (EWRB).</p>
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<b>Classification</b>	Electricity Supply > Electricity Supply - Transmission Networks
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<b>Available grade</b>	Achieved
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### Guidance Information

- 1 This unit standard underpins one of two capstone assessments for registration with the EWRB for transmission line mechanics in the electricity supply industry.
- 2 Evidence presented for assessment against this unit standard must be consistent with safe working practices and be in accordance with applicable legislative and industry requirements.
- 3 Legislation, regulations and/or industry standards relevant to this unit standard include but are not limited to the:
  - Health and Safety at Work Act 2015; Electricity Act 1992;
  - Electricity (Safety) Regulations 2010; and any subsequent amendments and replacements;
  - Electricity supply industry codes of practice and documented enterprise procedures, including Electrical Engineers' Association *Safety Manual – Electricity Industry* (SM-EI) (current version) and relevant EEA guides available at [www.eea.co.nz](http://www.eea.co.nz).
- 4 Definitions
 

*Asset owner* refers to a participant who owns or operates assets used for generating or conveying electricity.

*Industry requirements* include all asset owner procedures; manufacturers' specifications; and enterprise requirements which cover the documented workplace policies, procedures, specifications, and business and quality management requirements relevant to the workplace in which assessment is carried out.

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## Outcomes and performance criteria

### Outcome 1

Plan and carry out maintenance on transmission grid assets.

#### Performance criteria

- 1.1 Worksite safety plan is completed prior to work being undertaken.
- 1.2 Safety plan is implemented according to asset owner procedures.
- 1.3 Ropes, slings, and knots are used to replace tower components or lines according to asset owner procedures.

Range may include but is not limited to – lines, insulators, tower steel work, hardware;  
evidence of two replacements is required.

### Outcome 2

Identify and apply earthing and bonding to lines and equipment before maintenance of transmission assets is undertaken.

#### Performance criteria

- 2.1 Earthing and bonding requirements for worksite are identified.
- 2.2 Test lines are de-energised before applying portable earths.
- 2.3 Portable earthing and bonding is applied.
- 2.4 Portable earthing and bonding equipment is removed on completion of work according to asset owner procedures.

### Outcome 3

Carry out corrective maintenance to structures.

Range may include but is not limited to – steelwork, concrete footings and foundations, hardware replacement.

#### Performance criteria

- 3.1 Defects are identified and logged according to asset owner procedures.
- 3.2 Suitable materials, equipment, and tools are sourced to carry out work.
- 3.3 Maintenance work is completed according to asset owner procedures.

Range evidence of two completed maintenance procedures is required.

<b>Planned review date</b>	31 December 2025
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#### Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	20 August 2015	31 December 2022
Review	2	25 March 2021	31 December 2023
Review	3	26 May 2022	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	0120
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

#### Comments on this unit standard

Please contact Waihanga Ara Rau Construction and Infrastructure Workforce Development Council at [qualifications@WaihangaAraRau.nz](mailto:qualifications@WaihangaAraRau.nz) if you wish to suggest changes to the content of this unit standard.