

Title	Work on vegetation and trees near power lines and cables and demonstrate emergency procedures in utility arboriculture		
Level	4	Credits	8

Purpose	People credited with this unit standard are able to: work on vegetation and trees near power lines and cables; and demonstrate emergency procedures used in utility arboriculture.
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Classification	Electricity Supply > Electricity Supply - Distribution Networks
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Available grade	Achieved
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Prerequisite	Unit 28493, <i>Demonstrate knowledge of vegetation and tree work near power lines and cables</i> , or demonstrate equivalent knowledge and skills.
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Guidance Information

- 1 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.
- 2 Legislation, regulations and/or industry standards relevant to this unit standard include but are not limited to the current version of:
 - 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 *Safety Manual – Electricity Industry (SM-EI)* (2015) available at www.eea.co.nz;
 - *Approved Code of Practice: Arboriculture*;
 - *Approved Code of Practice: Maintenance of Trees Around Power Lines*;
 - *Working Near Overhead Electric Power Lines*;
 - *Best Practice Guidelines: Mobile Elevating Work Platforms*;
 - *Guide for Safety with Underground Services*, available at <https://worksafe.govt.nz>;
 - BS 3998:2010 *Tree work: Recommendations* available from <http://www.standards.co.nz/>;
 - ANSI Z133.1-2006 *Safety Requirements*, available from <https://webstore.ansi.org>.
- 3 Definitions
Asset owner refers to a participant who owns or operates assets used for generating or conveying electricity.

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

MEWP refers to mobile elevating work platforms.

- 4 Evidence gained for performance criterion 1.2 may be generated in a simulated electricity environment due to operational difficulties in trainees being able to talk to network operators.
- 5 Assessment of practical skills against the outcomes in this standard requires three practical observations from three different workplace activities, one of which may be conducted in a simulated electricity supply environment.
- 6 It is recommended people achieve Unit 6401, *Provide first aid* and Unit 6402, *Provide basic life support* before being assessed against this unit standard.

Outcomes and performance criteria

Outcome 1

Work on vegetation and trees near power lines and cables.

Performance criteria

- 1.1 Documentation is completed and checked by the site supervisor.

Range	may include but is not limited to – hazard identification sheets, job or time sheets, maintenance checklists, procedure forms.
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- 1.2 Network is logged onto and network operator is advised of work details prior to commencement.

Range	includes but is not limited to – network operator advised of contractor, work commencement date and time, location, feeder being worked on, work authority taken out for high-voltage lines, estimated duration of work.
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- 1.3 Equipment is selected, checked for safe operation, and used according to relevant codes of practice and company and/or asset owner's procedures.

Range	equipment may include but is not limited to – ancillary equipment, chainsaws, climbing equipment, friction devices, non-conductive ladders, non-conductive loppers and/or pole saws, non-conductive equipment, lowering lines and devices, personal equipment, spikes, flip lines, earthing of equipment.
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1.4 Vegetation and tree work is completed to meet the site specifications, company and/or asset owner’s standards, and relevant code of practice requirements.

Range includes but is not limited to – manual work and mobile elevating working platforms (MEWP), side trimming, maximum sag, fall distance, over the top, felling.

1.5 Job is finished according to site specifications and company and/or asset owner’s procedures.

Range includes but is not limited to – site cleaned up, work authority returned at the end of the job, log-off completed.

1.6 Reporting documentation is completed.

Range may include but is not limited to – tailgate meeting minutes, service report, job sheet report, check sheet; evidence of one report to company or asset owner specifications is required.

Outcome 2

Demonstrate emergency procedures used in utility arboriculture.

Performance criteria

2.1 Emergency procedures are demonstrated as specified in company procedures and by the network owner or network operator.

Range includes but is not limited to – near miss, damaged lines, damaged hardware, injured personnel.

2.2 Aerial rescues are demonstrated according to company procedures.

Range two person rescues using MEWP.

2.3 First aid procedures are demonstrated according to company procedures and site specifications.

Range includes but is not limited to – burns, unconscious victim, cuts, slips, trips and falls.

Replacement information	This unit standard and unit standard 28493 replaced unit standard 17152.
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Planned review date	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 November 2014	31 December 2022
Review	2	27 August 2020	N/A
Revision	3	28 January 2021	N/A

Consent and Moderation Requirements (CMR) reference	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 Connexis - Infrastructure Industry Training Organisation at qualifications@connexis.org.nz if you wish to suggest changes to the content of this unit standard.