

## Carry out tree work near electricity supply lines within the insulated tool zone

**Level** 4

**Credits** 5

**Purpose** This unit standard is for competent arborists undertaking tree work inside the insulated tool zone near electricity supply lines. People credited with this unit are able to: prepare to carry out line clearing work within the insulated tool zone, and carry out work within the insulated tool zone.

**Subfield** Electricity Supply

**Domain** Electricity Supply – Distribution Networks

**Status** Proposed

**Status date** dd MMMM yyyy

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**Entry information** Prerequisite: Unit 17152, *Undertake tree work near electrical supply lines*; or demonstrate equivalent knowledge and skills.

**Accreditation** Evaluation of documentation by NZQA.

**Standard setting body (SSB)** Electricity Supply Industry Training Organisation

**Accreditation and Moderation Action Plan (AMAP) reference** 0120

This AMAP can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

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### Special notes

- 1 This unit standard is intended for, but not restricted to, workplace assessment.
- 2 Safety of personnel must be a priority throughout the assessment. If the safety requirements are not met the assessment must stop.
- 3 Performance and work practices in relation to the elements and performance criteria must comply with all current legislation, especially the Electricity Act 1992, and any regulations and codes of practice recognised under that statute; the Health and Safety in Employment Act 1992; and the Resource Management Act 1991. Electricity supply industry codes of practice and documented industry procedures

include the *Safety Manual – Electricity Industry (SM-EI)* (2004) Wellington: Electricity Engineers' Association. A full list of current legislation and industry codes is available from the Electricity Supply Industry Training Organisation, PO Box 1245, Hamilton.

- 4 Relevant reference material  
Code of Practice for Safety and Health in Tree Work, Part One: Arboriculture; Part Two: Maintenance of trees around power lines; and Guide for Safety with Underground Services are available from regional offices of the Department of Labour, Occupational Safety and Health Service (OSH).  
British Standard for Treeworks: BS 3998:1989 and amendment 6549:1990 are available from Standards New Zealand, Private Bag 2439, Wellington.  
American National Standard for Tree Care Operations – Pruning, Trimming, Repairing, Maintaining, and Removing Trees, and Cutting Brush – Safety Requirements – ANSI Z133.1-1994 is available from American National Standards Institute, 11 West 42nd Street, New York, New York 10036, or website <http://www.ansi.org>.  
Working on the Road – A Handbook for Temporary Traffic Control and Safety at Roadworks sites is available from any office of Transit New Zealand.
- 5 Company procedures is a written plan detailing how the company will meet the requirements of the Health and Safety legislation.

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## Elements and performance criteria

### Element 1

Prepare to carry out tree work in the insulated tool zone.

#### Performance criteria

- 1.1 Close tree work terms are explained in terms of their relevance to line trimming tasks.
- Range: includes but is not limited to - minimum approach distance (MAD), auto reclose block, insulated tools, insulated EWP, access permits, tool insulation distance, approved work procedure.
- 1.2 Paperwork is completed to the satisfaction of the contractor and network operator.
- Range: includes but is not limited to – tail gate sheets, close approach permits, reclose block permit, work and time sheets, maintenance checklists, procedure forms, notification to OSH; public and personal liability insurance is valid for the work and is current.
- 1.3 Network operator requirements are met.
- Range: includes but is not limited to - written procedure approved by network operator, circuit and voltage confirmation, log on to network, close approach permit for EWP, reclose block procedure, earthing of EWP.

- 1.4 Hazards are identified according to company procedures.
- Range: includes but is not limited to – tailgate sheets, equipment and machinery checklists, crew briefings and task allocation, work plan and strategies.
- 1.5 Hazards involved in the work are controlled according to company procedures.
- Range: includes but is not limited to – hazards involved with operating EWP, working near electricity supply lines, step and touch potential, ground work, traffic and pedestrian control and exclusion from work zone, weather conditions.

## **Element 2**

Carry out tree work in the insulated tool zone.

### **Performance criteria**

- 2.1 Log on to network.
- Range: includes but is not limited to – network operator advised of contractor, work commencement date and time, location and estimated duration of work, prior to start of work.
- 2.2 Insulated tools are selected according to Codes of Practice and company procedures.
- Range: includes but is not limited to – hydraulic pole pruner, hydraulic chainsaw, non-hydraulic tools.
- 2.3 Insulated tools and equipment are inspected.
- Range: fibreglass - cracks, scores, scratches, gloss;  
metal - security of fixtures, visible damage.
- 2.4 Insulated tools and equipment are cleaned according to manufacturers' instructions, Codes of Practice, and company procedures.
- 2.5 Insulated tools and equipment are tested according to manufacturers' instructions, Codes of Practice, and company procedures.
- 2.6 Tree work completed meets the site specifications, company procedures, and Codes of Practice requirements.
- Range: includes but is not limited to – target branches accessed without compromising minimum approach distance, safety observer in position, optimum cutting and removal technique chosen, size of cuttings in accordance with distance between conductors, MAD maintained at all times.
- 2.7 Task is finished according to site specifications and company procedures.

Range: includes but is not limited to – site cleaned up, network operator notified job complete, insulated tools stored correctly.

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### **Please note**

Providers must be accredited by NZQA, or an inter-institutional body with delegated authority for quality assurance, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be accredited by NZQA before they can register credits from assessment against unit standards.

Accredited providers and Industry Training Organisations assessing against unit standards must engage with the moderation system that applies to those standards.

Accreditation requirements and an outline of the moderation system that applies to this standard are outlined in the Accreditation and Moderation Action Plan (AMAP). The AMAP also includes useful information about special requirements for organisations wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

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### **Comments on this unit standard**

Please contact the Electricity Supply Industry Training Organisation [info@esito.org.nz](mailto:info@esito.org.nz) if you wish to suggest changes to the content of this unit standard.