

2024 Health and Safety Workshop

BACK TO BASICS

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2024 / 2025 SSPG Update

Work Programme update

- *Guide to supervision updated (March 2024)*
- *LV Bonding (April 2024)*
 - 40 SM-EI Rule updates
 - 2 glossary updates
 - 3 new glossary definitions
 - 4 additional guide updates
- *Principles for Permit Areas, Marking of equipment – due for release*
- *AS / NZS1891:4 – Public comments now closed, review 30/31st July*

WORK ON DE-ENERGISED DISTRIBUTION OVERHEAD LINES GUIDE

First Published: January 2005
Revisions: 2007, 2008, 2015, 2021
Current Publication: APRIL 2024

SAFE WORK WITH CABLES GUIDE

First Published: November 2017
Current version: APRIL 2024

LOW VOLTAGE WORKS MANAGEMENT FOR DISTRIBUTION (NETWORK) INFRASTRUCTURE ASSETS (GUIDE TO)

First Published: May 2020
Revisions: 2021
Current Publication: APRIL 2024

TECHNICAL GUIDE: PORTABLE EQUIPMENT FOR WORK ON OR NEAR CONDUCTORS

First Published: June 2004
Revisions: 2009, 2012, 2018
Current Version: APRIL 2024

Section	Current Version	Revisions	First Published
1.1	APRIL 2024	2007, 2008, 2015, 2021	January 2005
1.2	APRIL 2024	2017	November 2017
1.3	APRIL 2024	2020, 2021	May 2020
1.4	APRIL 2024	2004, 2009, 2012, 2018	June 2004



2024 / 2025 SSPG Update

Work Programme update

- *LOTO Guide - out for consultation, Masterclass 23/07/24*
- *Temp traffic management working group*
- *Fatigue guide – Coming out for consultation*
- *Membership changes*
- *Engagement*
 - Masterclasses x 3 (AS/NZS1891.4, LV Works Management, Assurances)
 - LMCJ Comp – October 2024
 - Company visits



Rules – why do we have them



The learning from those that walked before us...

TELEGRAPH LINESMEN'S DEATH

MOTHER AWARDED £1000 DAMAGES

Wellington, August 23.
Annie Olsen was awarded a thousand pounds' damages for the loss of her son, Albert Olsen, a telegraph linesman, who was electrocuted while erecting a telephone line on Tinakori Hill. The Crown moved for a new trial, on the ground that the verdict was against the weight of evidence and excessive damages.

This article has been automatically dipped from the Te Puke.

NATIONAL LIBRARY OF NEW ZEALAND

Electric Lineman's Terrible Death.

Wanganui Herald, Volume XXXIV, Issue 12720, 16 March 1909, Page 5

Electric Lineman's Terrible Death.

PERTH, March 16.
A lineman named Cox, while working at some overhead wires, fell across a live cable carrying 2000 volts, and was roasted to death.



TELEGRAMS.

A LINEMAN ELECTROCUTED
BY ELECTRIC TELEGRAPH.—COPYRIGHT.
WOULD-BE RESCUER RECEIVES A BAD SHOCK.

VICTIM'S HANDS BURN TO THE BONE.

[PRESS ASSOCIATION.]
DUNEDIN, May 25.
Shortly before 3 o'clock this afternoon a horrible accident occurred to two linemen shifting a low tension electrical wire outside Messrs A. and T. Burt's foundry, Cumberland street. James Henderson got his hand upon one of the wires, and was immediately electrocuted.
Mr Highley, foreman to Binsby and Co., saw him hanging across the wire and went to his rescue, but, finding all the wires live, he returned to the ground to get the power shut off.
Before Highley had finished James Kinch, a companion of Henderson's, mounted the ladder and attempted to take him from his position, but he himself was caught by one of the wires and received a terrible shock, which left him helpless.



The learning from those that walked before us...

The New Zealand Herald Search keywords...

Lineman electrocuted after safety failure

Accidents 4:56 PM Wednesday May 7, 2013



An experienced lineman electrocuted on the job had isolated the wrong line then then told his employer prior to his death about carrying out proper safety checks to ensure the line was not live, a coroner's inquest has heard.

Otago lineman killed in

3:37 PM Friday Dec 10, 2010

A 63-year-old Otago lineman was killed on the job on Friday night after he touched a live line.

Police today named a 63-year-old lineman working on collapsed in central Otago.

Roger Allan Steel, from Alexandra, died yests Millennium Track, Millers Flat, Sergeant Andy Reed of Alexandra police said.

His death has been referred to the coroner. Police and the Department of Labour were investigating. - NZPA

ROTORUA Daily Post Search keywords...

Local lineman killed at work

Local News 4:27 PM Wednesday May 7, 2013

By ALANAH MAY ERIKSEN A Rotorua lineman was killed instantly after accidentally touching live wires while working in an elevated cherry picker.

Linesman lucky to survive massive electric shock

Published: 7:13AM Tuesday February 01, 2011 Source: ONE News

A Southland lineman is lucky to be alive after 15 minutes he was working at a substation.

Jeffery Berry was working on lines at the Seavair 19, directly below a 33,000-volt line.

A wire flicked up and touched the line, diverting 1 his body and out the other arm.

It was like all my muscles were constricted, just a he recalled.

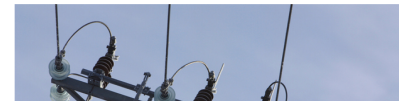
A \$75,000 fine for Delta Utility Services Ltd over the death of an Alexandra lineman is only a "slap on the wrist" for the company, the man's grieving family says.

"We feel cheated - the end result

The New Zealand Herald Search keywords...

Man electrocuted in Southland

5:34 PM Saturday Oct 27, 2012



Police are investigating the death of a lineman who was electrocuted in a cherry picker yesterday.

Chris Petersen, 53, was working on 400-volt lines in New Plymouth, when he was killed about 3.30pm.

A fellow worker tried in vain to revive him by giving him CPR.

Police said Mr Petersen and his co-worker from Tenix Alliance were in the insulated bucket of an elevated platform, replacing transformer boxes on power poles.

The death is being investigated by police, the Department of Labour, Electrical Safety Service and Tenix Alliance.

Mr Petersen was a married man with a family. - NZPA

Lineman electrocuted in cherry picker

9:22 AM Wednesday Oct 23, 2013

Police are investigating the death of a lineman who was electrocuted in a cherry picker yesterday.

Chris Petersen, 53, was working on 400-volt lines in New Plymouth, when he was killed about 3.30pm.

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Mr Petersen was a married man with a family. - NZPA

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The learning from those that walked before us...

The New Zealand Herald Search keywords...

Linesmen burned in explosion

By Andrew Koubaridis 7:24 PM Monday Apr 22, 2013

Accidents Workplace Accidents

Two linesmen have suffered superficial burns in an explosion in Warkworth, north of Auckland.

The men were injured just after 3pm on Sandspit Rd.

They have been flown to hospital in the Westpac Rescue chopper.

A Sandspit Rd resident heard a loud bang and then saw smoke coming from a transformer and lines on fire.

The linesmen's truck was parked next to where the explosion occurred and they were gathered around the injured men on the ground.

- NZ Herald



Photo / File / Thinkstock

The New Zealand Herald Search keywords...

Company devastated by employee's death

5:33 PM Thursday Jun 2, 2011

New Zealand Wellington

Colleagues of a man killed while working on Wellington's south coast today say they are traumatised by his death.

The man was replacing a transmission line at the remote Transpower site at Oteranga Bay, south of Makara, this morning, when the cherry-picker machine he was on fell over.

Another worker was seriously injured and was flown to Wellington Hospital with fractures to both legs as well as broken ribs, and a bruised or collapsed lung.

The two men were tethered to a basket, so were not thrown clear machine toppled.

Both men were from Palmerston North and worked for Electric.

Electric general manager Robert Ferris told NZPA the company was the tragedy.

"We're working with both the team members plus the families of involved and we're providing all the assistance we can to help them.



One worker has been killed after a Meridian's wind turbine farm at M Photo / Mark Mitchell

Power company worker survives 220,000-volt shock

5:00 AM Wednesday Jul 2, 2003

New Zealand

By JO-MARIE BROWN A Transpower contractor is in hospital with serious burns after 220,000 volts from the national grid shot through his body.

The 34-year-old Taupo man, employed by Electric, was working inside the Wairakei substation when the accident occurred around 11am yesterday. He was knocked unconscious when power surged through one of his hands and out the other, leaving him with a hole in one palm and serious burns.

"He was working on a high-voltage transmission area where the line meets some other equipment," Transpower spokesman Wayne Eagleson said.

Mr Eagleson said such accidents rarely occurred.

He would not comment on whether the man was lucky to be alive after being struck by 220,000 volts, but pointed out that most power lines in residential areas carried only 11,000 volts.

The Trans Rail rescue helicopter flew the man to Rotorua Hospital. He was said to be recovering well last night. Transpower and Occupational Safety and Health are investigating.

The New Zealand Herald Search keywords...

Flash explosion on pylon burns two workers, cuts power

By Andrew Koubaridis, Morgan Tait 5:30 AM Tuesday Apr 23, 2013

Accidents Workplace Accidents

Two men are recovering from burns after the power pylon they loaded, nearly 800

es were sicker on north, north ie pylon

said the ie been lision that burns to the face and neck.

all the right equipment because their eyes were fine - you / had their glasses on. They had quite severe burns to their top of the shoulders, but otherwise they should be fine."

ev had any electrical current go through them.



The blast cut power to 768 dwellings in Warkworth and Matakana. Photo / Greg Bowler

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The learning from those that walked before us...

EEA - Step Potential related Safety Alerts

- 01-2005 (NZ) Fatal Injuries During 66kV Line Work
- 01-2011 (Jan) (NZ) - Contact with Live 33kV Overhead Circuit
- 02-1999 (NZ) Line Mechanic Serious Harm Incident
- 02-2010 (NZ) (Feb10) Spouting Strike Against 11 kV Overhead Conductor
- 03-2005 (NZ) Irrigation Pipe Contact with 11kV Network
- 04-2004 (NZ) Transmission Line - Electrical Near Miss
- 05-2002 (NZ) Scaffold Contacting Powerlines
- 05-2005 (NZ) Work on OH Line Conductors Notice
- 06-2011 (Aug) (NZ) - Public Safety Truck Mast into Vector OverHead (Final)
- 07-2004 (NZ) Line Mechanic Accident (Fatality)
- 07-2006 (NZ) Electric Shock While Tree Trimming
- 08-2003 (NZ) Fatal Accident at Ripanui, Whangarei
- 09-2004 (NZ) Crane Contacting Energised OH Line (Fatality) (Groudman)
- 10-2008 (NZ) ABS Failure Step Potential

EEA - Flashover related Safety Alerts

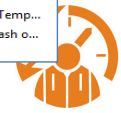
- 01-2001 (NZ) Berm Mounted 11kV Oil Sw...
- 01-2002 (NZ) Switchgear Failure
- 01-2009A (NZ) Sw Gear Maintenance Arc ...
- 02-2005 (NZ) Flashover
- 02-2009 (NZ) Jan 09_ Live LV Weber Disco...
- 03-1999 (NZ) Oil Filled Ring Main Unit Ac...
- 03-2001 (NZ) Cable Termination Incident
- 04-2006 (NZ) Serious Harm to Cable Joint...
- 04-2009 (NZ) Apr 09 Digger Cable Strike ...
- 05-2003 (NZ) Flashover While Replacing ...
- 06-1999 (NZ) Switchgear Accident
- 06-2006 (NZ) Trainee Line Mechanic Sust...
- 06-2009 (NZ) (April 09) 11kV Cable Jointin...
- 06-2010 (Nov) (NZ) - Arc Flash Burn - Liv...
- 08-2004 (NZ) Flashover in a 400V Service ...
- 08-2009 (NZ) (April 09) Flash Burns 11kV ...
- 09-2002 (NZ) Flash Burns While Opening ...
- 09-2008 (NZ) LV Kiosk Flashover
- 09-2009 (NZ)_April 09_ Flash Burns 11kV ...
- 10-2002 (NZ) Phase to Phase Contact Inci...
- 11-2013 - (Apr) (NZ) Flashover
- 12-2004 (NZ) Flashover Incident
- 15-2004 (NZ) 400 Volt Pillar Blow Up
- 79-2014 (NZ) (Sept) 11kV Shock & Burns
- Safety Advice 45 - 2013 (Nov) (NZ) Temp...
- Safety Advice 95-2014 (NZ) (Dec) Flash o...

EEA - Fall related Safety Alerts

- 01-2010 (NZ) (Feb10) Check Falcon Fall A...
- 03-2000 (NZ) EWP Bucket Failure
- 04-2000 (A) (NZ) Fall from a New Pole
- 04-2012 (NZ) Karabiner Failure
- 06-2001 (NZ) Lineworker Safety Harness ...
- 07-2001 (NZ) Fall Accident
- 07-2008 (NZ) Ladder Fall - Distribution Li...
- 07-2010 (Dec) (NZ) - Line Mechanic Fatal...
- 08-2008 (NZ) Ladder Fall In Storm
- 11-2006 (NZ) Electrician Faultman Fall
- 11-2008 (NZ) Ladder Failure
- 12-2013 (May) (NZ) Pole Fall
- 15-2009 (NZ) (Nov 09) - Pole Strap Failure
- 17-2008 (NZ) November 08 - Ladder Failu...
- 19-2008 (NZ) (Dec 08) Trainee Line Mech ...

EEA - Live Line related Safety Alerts

- 02-2006 (NZ) Live Line Switch Installation...
- 03-2009 (NZ) Feb 09 Live Line G&B Shock
- 03-2010 (Feb 10) (NZ) - Live Line Accident
- 04-2010 (March) (NZ) - Live Line Incident
- 05-2004 (NZ) Live Work Incident (May 20...
- 07-2000 (A) (NZ) Live Line Incident
- Safety Advice 97-2015 (NZ) (Dec) Live Lin...



The cost to those hurt...



The cost to business...

WORKSAFE
Māori Heiwhiri Aotearoa

Court Summary - at a glance

Date of offence: 28 March 2014
 Plea: Guilty
 Decision: Convicted
 Final decision date: 7 May 2015
 Fine imposed: \$33,500



Lessons learned

Safety lessons learned: Isolate the electrical supply before commencing work - the flashover is a known hazard when working live within the Weber disconnecter.

The offence

Defendant name: Electrix Limited
Industry: Energy
Date of offence: 28 March 2014
Facts in brief: Employee was working to upgrade an existing electrical pillar. The electrical supply to the pillar was still connected and live. The employee was attempting to disconnect the incoming supply cables to the component known as the Weber disconnecter. The bolts were stuck due to rust and corrosion. The employee's screwdriver slipped while he was trying to unscrew a bolt and this short-circuited two of the live phases, resulting in a flashover.



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WORKSAFE
Māori Heiwhiri Aotearoa

Court Summary - at a glance

Date of offence: 16 May 2015
 Plea: Guilty
 Decision: Convicted
 Final decision date: 12 September 2017
 Fine imposed: \$92,400



Lessons learned

- Safety lessons learned:**
1. Ensuring that employees properly understood how to measure the MAD;
 2. Ceasing work to re-evaluate the activity in order to prevent employees breaching the MAD as required by reg 17 of the Electricity (Safety) Regulations;
 3. Carrying out testing of the serviced equipment with the connecting bar in place, under a test permit;
 4. Reiterating in the written workplace documents that if there was any reason why the conditions in the work procedure could not be maintained, the work should stop; and
 5. Ensuring that employees planned their moves and took extreme care when moving from one position to another, given their proximity to live electrical parts.



Your leaders have skin in the game...

WORKSAFE

Company director fined for health and safety failings

Who we are +
Cases +
News and media +
Information requests +
Complaints +
Corporate publications +
Relationship agreements +
About this site +

19 October 2023
 WorkSafe is warning company directors that if they are not making sure their company's operations are safe and healthy, they face enforcement under the health and safety at work Act 2015.
 The warning follows the first WorkSafe prosecution and subsequent conviction and sentencing today of a director and his company for health and safety failings.
 "Directors have special legal duties to undertake due diligence on their company's operations to keep our safety, wellbeing, and failing to do so not only puts their workers at risk, but it also puts them in our sights," WorkSafe's head of Specialist Enforcement says.
 "As governors of their businesses, they have more ability than anyone else to influence their business' operations to ensure they're being run in the ways required to protect workers and others on their sites from health and safety risks. If they're not doing so, there's nothing in their pocket," he continues.
 On 18 October 2023 in the Tauranga District Court, Jon-Drian Parker and his company Jimsberry Tool and Design (JTD) Limited were convicted and fined for a November 2019 incident in which a worker suffered crushing injuries while

Former Port of Auckland CEO Tony Gibson on trial for workplace death of Pala'amo Kalati in unprecedented prosecution



Former Port of Auckland boss Tony Gibson today faces a charge of manslaughter in relation to the death of a worker before a coronial inquest. An unprecedented court case has been heard.

NORTHLAND

WorkSafe charges Whangārei Boys High School Board of Trustees after student's death on caving excursion

06/05/2024
 Watch: WorkSafe has charged the board of Whangārei Boys High School for health and safety failures related to the death of a student on a caving trip. Credits: NewsHub
A Northland school board has been charged over a teenager's death on a caving excursion last year.
 Fifteen-year-old Kamin Potera died on a school trip to Abbey Caves on May 9, 2023, after his group got into trouble when severe weather set in.
 Now, WorkSafe New Zealand has charged the Whangārei Boys' High School Board of Trustees over the death under the Health and Safety at Work Act.
 "We acknowledge the profound impact of this tragedy on whānau, friends, and the wider community. A year on, our sympathy and thoughts are with all of those who knew and loved Kamin," WorkSafe's head of Inspectorate Rob Pope said in a statement on Monday.
 The Abbey Caves are about a 10-minute drive from central Whangārei and are a popular spot for walking and recreation, featuring three significant caves - Oraan, Middle, and Ivu.

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You have skin in the game...

Web Version

Energy Safety WORKSAFE

In this issue

- Home detention for tradesman's death
- Unsafe electrical and gas products identified for sale in New Zealand
- Working around low voltage overhead electric lines
- Change to our email address



Home detention for tradesman's death

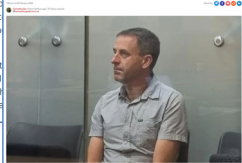
WorkSafe - Energy Safety has successfully prosecuted an electrical worker, Stephen Graham Burton, under s163C of the Electricity Act 1992 for failing to test prescribed electrical work he had completed that ultimately resulted in a fatality.

The electrical worker was sentenced in the Nelson District Court to eight months home detention and ordered to pay \$150k in reparation.

This conviction and sentencing sets important precedents in New Zealand highlighting the need for testing specified in the regulations to ensure the compliant and safe to use.

The electrical worker was engaged by a property outlaid extraction light and fan appliance and point to supply a newly installed range hood. It connected to the existing cable that was original appliance.

Electrician given home detention, ordered to pay \$150k after builder fatally electrocuted



SKIN IN THE GAME

Harding [2021] EWRB CE22357 - Final Decision Complaint number: CE22357 EWRB number: EW126878 Region: Canterbury Registration class: Distribution Line Mechanic Decision date: 16 September 2021 DOWNLOAD PDF (1.3 kB)	
Walsh [2020] EWRB CE22249 - Final Decision Complaint number: CE22249 EWRB number: EW071661 Region: Wellington Registration class: Distribution Line Mechanic Decision date: 15 January 2021 DOWNLOAD PDF (199 kB)	
Lingard-Sharp [2020] EWRB CE22237 - Final Decision Complaint number: CE22237 EWRB number: EW132753 Region: Canterbury Registration class: Distribution Line Mechanic Decision date: 19 November 2020 DOWNLOAD PDF (199 kB)	
Macdonald [2020] EWRB CE22215 - Final Decision Complaint number: CE22215 EWRB number: EW138583 Region: Otago Registration class: Distribution Line Mechanic Decision date: 22 September 2020 DOWNLOAD PDF (199 kB)	
Bennett [2020] EWRB CE22130 - Final Decision Complaint number: CE22130 EWRB number: EW040538 Region: Auckland Registration class: Electrical Service Technician, Distribution Line Mechanic Decision date: 12 May 2020 Penalty: 147M(1)(f) - Fine 147N - Cost 147Z - Publication DOWNLOAD PDF (224 kB)	



Our brothers / sister keeper



SM-EI

SM-EI Knowledge Network

MY PUBLICATIONS FORUMS ASK EEA SHARED LEARNING MEMBERS SHOP

SM-EI

About this publication
Glossary
Principles
Resources

SM-EI help
Attachments: Context sensitive resources attached to this document. The resources will display here as you scroll through the document.

Process view Subject view 2015 Ed. order

1 - Ongoing
2 - Before the day
3 - On the day
4 - Upon arrival
5 - Before work
6 - During work
7 - After work
8 - End of day

1 Ongoing: Empowering people to work safely

Persons Controlling a Business or Undertaking (PCBUs) have duties to provide and maintain safe plant and structures, and safe systems of work. PCBUs are expected to collaborate, cooperate and coordinate with other PCBUs so that responsibility is assigned according to the level of control each PCBU has in determining safe outcomes. Having suitable systems, equipment, information and capability all pave the way for a culture of safety from the start of the PCBU chain, through to the individual employee or worker, on an ongoing basis.

0:00 / 7:20

Safety Standards and Procedures Group - Member Introduction (2020)

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OMEXOM

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EEA Low Voltage Works Management Guide

De-Energised OH Lines Guide



Guide to Temporary Earthing
of Distribution Overhead Lines

January 2005

Guide to Work on De-Energised Distribution
Overhead Lines

September 2007

Guide to Work on De-Energised Distribution
Overhead Lines

January 2008



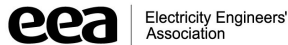
Guide to Work on De-energised Distribution Overhead
Lines

November 2015 - Issue 4

Guide to Work on De-Energized
Distribution Overhead Lines

July 2008

Issue 3



**HEALTH &
SAFETY**



2024 Health and Safety Workshop

**BACK
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