

# High Voltage Earthing Workshop

Covering the recent changes to AS 2067

BRISBANE –  
Thursday 21<sup>ST</sup> June 2018

**Workshop Presenter:**

**STEPHEN PALMER**

Director,  
Safearth Consulting



## WHAT YOU WILL GAIN FROM THIS EVENT:

- Discuss and learn about the changes to the AS 2067 standard with one of Australia's leading earthing specialists
- Review the key principles and issues foundational to earthing
- Learn the reasoning behind the changes of the amended AS 2067
- Understand earthing risk and determine appropriate safety criteria
- Understand the earthing design process
- Discuss the importance of monitoring, maintenance and documentation
- Learn from a wide range of industry case studies

## WHO SHOULD ATTEND:

- Substation engineers and technicians
  - Generation, transmission engineers and technicians
  - Electrical engineers, technicians and electricians
  - Maintenance engineers and asset managers
  - Plant, project and design engineers
  - Industrial organisations with high HV electrical distribution
  - Engineering and safety managers
  - Government safety regulators/inspectors
  - Network, protection and distribution engineers and technicians
  - Risk assessors
  - Maintenance specialists
  - Earthing specialists
- And all other engineering professionals who have an interest in HV design, standards, installations, operations and maintenance.

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*Book on or before  
24<sup>TH</sup> MAY 2018*

*See back page for details*

## FOR MORE INFORMATION

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# HIGH VOLTAGE EARTHING WORKSHOP

## Overview:

The AS 2067:2016 High Voltage Standard provides minimum requirements for the design and installation of high voltages above 1kV (ac) so as to provide appropriate safety and performance over the assets entire life.

High voltage installations can range from a substation, auxiliary systems, interconnecting cables/lines and naturally the user's facilities such a plant, factory, office facility and mine site. Equipment includes switchgear, transformers, converters, cables, lines, batteries, earthing systems, capacitors, reactors, buildings and structures.

Most sections of AS 2067 have changed and this workshop will focus on those changes related to earthing. The earthing section has being considerably amended and expanded to cover all industry sectors, including mining, which previously relied on AS/NZ 3007.

This workshop will work through the earthing changes in detail starting from why change was required, through what the changes really mean, and importantly, what each workshop participant should be changing or doing to meet the new obligations. Significant changes were also made to sections on access areas and protection against fire and explosions and these will be given a brief overview.

## Program:

**8.00am – Registrations Open**

**8.30am – Workshop Commences**

**Earthing obligations under AS2067 have changed: What has changed, why, and what do you need to do next**


Presented by

**Stephen Palmer – Director, Safearth Consulting**

The much-anticipated revision to AS 2067 was published in September 2016. This standard is the primary standard for HV earthing system design and earthing system management and it includes significant changes, particularly the development of more transparent and site-specific risk-based safety criteria, enabling more effective assessment and management of earthing-related risk. This workshop will review the key understanding, principles and issues foundational to earthing, present the AS 2067 requirements and recommendations, explain the reasoning behind the changes, and provide guidance on how asset owners, designers, testers and inspectors should seek to maximise their compliance and derived benefits. This full day workshop will include explanation of case studies and the opportunity to present and discuss attendees' own cases.


**4.30pm – Workshop Closes**

**Includes lunch and morning and afternoon teas**



### WORKSHOP PRESENTER:

### STEPHEN PALMER



Director - Safearth Consulting  
One of Australia's leading earthing specialists  
Committee Member for IEEE Std80 and Std81  
Secretary of the International CIGRE & CIRED  
Joint Working Group B3.35

Stephen Palmer is Director of Safearth Consulting. He is one of Australia's leading earthing specialists, with expertise in all areas related to earthing, including design, audit and test in sectors including power generation and delivery, heavy industry, mining and rail.

For over 20 years Stephen has investigated and managed the risks associated with earthing, lightning protection and interference. As the leader of a team of 25 consultants & researchers, his experience extends well beyond the technical aspects of the field. He has been a contributing member on the committees responsible for Australian documents including EG-0, AS/NZ 3007 and AS/NZ 2067. He is a committee member for IEEE Std80 and Std81, and is the secretary of the international CIGRE & CIRED Joint Working Group B3.35, tasked to publish on substation earthing design optimisation including quantified risk.

Stephen has delivered formal earthing training for more than a decade and has presented at numerous Australian and international conferences including for the NSW Government, Energy Networks Association (ENA), Engineers Australia, CIGRE and the IEEE.

**REGISTER NOW:**



1300 138 522



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**FOR FURTHER INFORMATION:**



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**REGISTRATION FORM:**

**HIGH VOLTAGE EARTHING WORKSHOP**

**Brisbane – Thursday 21<sup>st</sup> June 2018**

Simply complete this registration form online or return by email

**EARLY BIRD OFFER:**  
 10% off the workshop fee for registrations received  
 on or before 24<sup>th</sup> May 2018  
 – **SAVE \$90**

**1. DELEGATE DETAILS**

Contact: \_\_\_\_\_ Company Name: \_\_\_\_\_  
 Company Address: \_\_\_\_\_  
 Suburb: \_\_\_\_\_ State: \_\_\_\_\_ Post Code: \_\_\_\_\_ Phone: \_\_\_\_\_  
 Admin/Accounts Payable Email: \_\_\_\_\_

|                   |          |   |
|-------------------|----------|---|
| <b>ATTENDEES:</b> | <b>1</b> | Mr/Ms: _____ Job Title: _____<br>Email: _____ |
|                   | <b>2</b> | Mr/Ms: _____ Job Title: _____<br>Email: _____ |
|                   | <b>3</b> | Mr/Ms: _____ Job Title: _____<br>Email: _____ |

**2. HOW DID YOU HEAR ABOUT THIS EVENT?**

Received an email from IDC     
  Received a brochure in the mail     
  Searched online (Google, Yahoo etc)  
 Recommended by a friend/colleague     
  Magazine advertisement/insert (please specify which magazine below)  
 Other (please specify) \_\_\_\_\_

**3. REGISTRATION & PAYMENT DETAILS** Prices shown are inclusive of GST

**HIGH VOLTAGE EARTHING WORKSHOP**  
 BRISBANE – Thursday 21st June 2018

**OPTION 1: Early Bird Discount 10% OFF**  
 – Book on or before 24th May 2018 (**SAVE \$90**)      \$810 x \_\_\_\_\_ delegates = \$ \_\_\_\_\_  
 **OPTION 2: Standard Rate (NO Early Bird Discount)**  
 – Book after 24th May 2018      \$900 x \_\_\_\_\_ delegates = \$ \_\_\_\_\_

**TOTAL DUE = \$ \_\_\_\_\_**

*Corporate Packages available upon request*

**PLEASE NOTE: Full payment is required prior to the commencement of the workshop.**

I wish to pay by:  EFT     Direct Deposit     Company Purchase Order Number: \_\_\_\_\_

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**GENERAL INFORMATION**

**Confirmation Details**

A confirmation email and invoice will be sent to delegates within 3 days of receiving the registration.

**Cancellation Policy**

A fee of 20% cancellation will apply for cancellations received 7 – 14 days prior to the start date of the workshop. Cancellations received less than 7 days prior to the start date of the workshop are not refundable, however substitutes are welcome.

**Venue**

Brisbane – TBA  
 (Central Brisbane Venue)

**Accommodation**

The workshop venue will have accommodation available. Venues are booked once minimum attendance numbers are achieved.

**Food and Beverages**

All lunches, morning and afternoon refreshments are included.

**Unable to Attend**

If you are unable to attend the full workshop program, contact us to purchase the Workshop Manual.

**Enquiries**

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**REGISTRATIONS**

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