

High Voltage Earthing Workshop

Covering the recent changes to AS 2067

ADELAIDE – Wed 14th March 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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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.

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