

Presented by



Low Voltage, Earthing & Arc Flash Conference

27th & 28th August 2025
Melbourne, Australia

Speaker & Sponsorship Prospectus



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About IDC Technologies

IDC Technologies is internationally acknowledged as the premier provider of practical technology training and technical conferences. With offices in Australia, New Zealand, Singapore, the United Kingdom, Ireland, India, the USA, Canada, and South Africa, IDC Technologies has an enthusiastic team of professionals committed to providing the highest-quality training and events.

Conference Management

Over the past 20+ years, IDC Technologies has coordinated workshops and conferences around the globe. Each conference has a dedicated team of professional organisers who are committed to making that event a success. We aim to have the highest caliber of speakers who will present an interactive program with real-world examples, case studies, and solutions. We aim to provide conferences with niche topics, speakers, and content.

IDC Events specialise in technology training in the fields of:

- Education and Training
- Electrical Engineering
- Mechanical Engineering
- Chemical Engineering
- Industrial Data Communications and Networking
- Information Technology
- Electronic Engineering

Visit our website for upcoming event information: [IDC Technologies & Events](#)



Low Voltage, Earthing & Arc Flash Conference

An Overview

Shaping the Future & Safety of **Low Voltage, Earthing & Arc Flash.**

Advancing Low Voltage Design, Maintenance & Earthing, and Arc Flash Protection.

The electrical engineering landscape is evolving rapidly, with regulators emphasising continual improvements in low-voltage design, maintenance, and safety—especially in arc flash protection. This conference addresses industry challenges, best practices, and regulatory updates to ensure compliance and enhance workplace safety.

The event's heart is an in-depth review of AS/NZS 3000:2018 (the Australia-New Zealand Wiring Rules). While the standard has been in place since 2018, amendments and evolving industry practices continue to shape its implementation. This conference will provide engineers, designers, and maintenance professionals with essential insights into how these changes are effectively applied across sectors.

The AS/NZS 3000 standard protects personnel, livestock, and property from electrical hazards such as shock and fire. Compliance is mandatory, and electrical system design, installation, and maintenance engineers must stay current with its requirements. Staying compliant is of utmost importance.

The conference's key focus is concepts and case studies relating to Earthing and arc Flash safety—one of the most critical challenges in electrical engineering today, particularly in mining, utilities, and manufacturing. While technology and safety procedures have dramatically reduced other electrical hazards, arc flash incidents remain a leading cause of workplace injuries and fatalities.

Attendees will gain valuable insights into:

- Best practices in arc flash prevention & isolation safety
- Global perspectives on arc flash standards
- The latest research on renewable energy integration
- Battery Storage Design
- Utility V Client Protection
- Electrical Safety & Best Practice for Earthing

As industry experts continue to refine the understanding of these topics, this conference will serve as a platform for critical discussions on aligning local and international safety approaches.

Join us in 2025 to ensure you stay ahead of regulatory changes, enhance safety outcomes, and drive innovation in electrical engineering.



Conference Venue

Novotel Melbourne on Collins
270 Collins Street,
Melbourne VIC 3000

T +61 (0) 3 9667 5800
D +61 (0) 3 9669 8635

Accommodation:
(A code will be sent to speakers & delegates to book directly with the hotel)



Call for Papers

Are you an electrical engineer, consultant, technologist, or technician working with Low-Voltage (LV) Earthing and arc Flash in the mining, industrial, gas, energy transition, or utilities industry?

We would like to hear from you.

We are looking for several presenters to submit a topic idea and present their papers at the upcoming Low Voltage Conference. The conference will cover AS/NZS3000, earthing, arc flash safety, Renewable Energy Integration, concepts, and case studies on all subjects relating to LV.

LVDC—Low Voltage Direct Current Systems: What is their adoption, how are they compatible, and how do they work with modern technologies? EV charges, concerns, safety and load management.

Join your peers in a vigorous and positive exchange of views, build your career and public profile, and contribute to Australian engineering practice.

IDC Technologies Conference presentations are noncommercial. The focus is on providing practical applications and solutions—probably the best way to showcase your technologies and engineering skills. We seek practical case studies, applications, and the newest developments in this critical subject.



Topic Suggestions

LOW VOLTAGE DESIGN & INSTALLATION & SAFETY:

- Design case studies of an electrical installation
- Low voltage safety
- Standards and regulations
- Power system protection
- Electrical systems, earthing and bonding
- Application areas
- EV Charges, concerns, safety & load management
- Protection for safety
- Selection and installation of electrical equipment, switchgear and control gear
- Inspection and testing
- Arrangement and control of electrical installation
- Devices for isolation and switching
- Fault protection
- Devices for protection against overcurrent and short circuit
- Technologies & Developments in LV Protection
- Protection against earth leakage current, overvoltage and undervoltage
- Switchboards
- Circuit arrangements, protection coordination, limits of LV feeder lengths for proper earth fault detection
- Calculating the demand of electrical systems for proper conductor sizing
- Earthing in electrical installations
- Special electrical installations (Baths, showers and fixed water containers)

TESTING & VERIFICATION REQUIREMENTS OF THE STANDARD:

- Visual inspection
- Testing
- Common inspection and test methods for low voltage, Multiple Earthed
- Neutral (MEN) electrical installation as per AS/NZS 3017
- Periodic verification of existing electrical installations of low voltage AC supply system as per AS/NZS 3019

ELECTRICAL SYSTEMS, EARTHING & BONDING:

- System earthing
- Equipment bonding & earthing of structures
- Electrical safety earthing
- Static earthing
- Solid, impedance, touch potentials
- Electric shock
- Earth leakage protection
- Design
- Protection
- Earthing electrodes

LOW VOLTAGE MAINTENANCE:

- Replacement versus reconditioning of electrical equipment
- Managing ageing equipment
- Maintenance programs and asset management strategies
- Electrical safety related to LV equipment
- Reliability-centred maintenance (RCM) of LV equipment
- RCM risk analysis - Assessment of switchboards, circuit breakers, rotating machines, transformers
- Condition-based maintenance (CRM) of LV equipment
- Testing and maintenance of cables, circuit breakers, switchgear
- LV maintenance – rotating equipment
- Medium-voltage contactors
- Isolation tagging and locking systems
- Low voltage circuit breaker testing
- Switchgear life extensions
- Battery testing
- Cable maintenance and testing
- Maintenance issues causing arc flash and blast - HV & LV Systems



Topic Suggestions Continued

ARC FLASH SAFETY

- Arc flash and switching case studies
 - Arc flash calculations, assessments, studies and research
 - Working distances & flash boundaries
 - Practical solutions for reducing arc-flash hazards
 - Data collecting and system modelling
 - Guidance on safe isolation procedures and isolator switch technology
 - Arc flash calculations
 - Practical solutions for reducing arc-flash hazards
 - Flash protection approach boundaries
 - Hazard risk category
 - Codes and standards – overview, review & critique – NFPA 70E/IEEE 1584 /ESAA NENS 09-2004/ CSA-Z462
 - Practical electrical isolation for the avoidance of arc flash risk and injuries
 - Arc flash compliance implementation in the workplace
 - Personal Protective Equipment (PPE)
- Arc flash and switching case studies
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 - Personal Protective Equipment (PPE)



Express Your Interest in Presenting

To Express an Interest

Please fill in the [Expression of Interest Form](#) and email to Conference Manager Vynka Malone: Vynka.Malone@idc-online.com

What is required of presenters:

- A **100-word abstract outlines the topic you want** to present. To secure your place, this must be submitted electronically as soon as possible.
- Once your topic is approved, your **technical paper and PowerPoint slides** are due six weeks before the event.

Speaking slots are allocated based on topic suitability and on a first-come, first-served basis. Please note that sales presentations are not accepted.



Sponsorship Packages

Platinum Sponsor & Coffee Cart (1 Available)	Gold Sponsorship (3 Available)	Silver Sponsorship (2 Available)	Networking Drinks (1 Available)
<ul style="list-style-type: none"> • Complimentary attendance for two delegates • Barista coffee cart sponsorship: • Signage/banners displayed at the conference • Trade display stand (trestle table provided) • Logo featured on conference brochure & manual • Seat drop – gift/promotional material • Acknowledgement at opening and closing address • Promotional material emailed to delegates post conference <p>\$4,900 (GST inclusive)</p>	<ul style="list-style-type: none"> • Complimentary attendance for two delegates • Signage/banners displayed at the conference • Trade display stand (trestle table provided) • Logo featured on the conference brochure & manual • Seat drop – gift/promotional material • Acknowledgement at opening and closing address • Promotional material emailed to delegates post conference <p>\$4,200 (GST inclusive)</p>	<ul style="list-style-type: none"> • Complimentary attendance for one delegate • Signage/banners displayed inside and/or outside the conference room • Trade display stand (trestle table provided) • Logo featured on the conference brochure & manual • Logo on the event webpage. • Acknowledgement at opening and closing address <p>\$2,800 (GST inclusive)</p>	<ul style="list-style-type: none"> • Complimentary attendance for one delegate • Naming rights of the networking drinks • A short speech to welcome delegates to the networking drinks • Signage/banners displayed at the networking drinks • Logo on event webpage • Acknowledgement at opening and closing address <p>\$2,000 (GST inclusive)</p>



Sponsorship Benefits, Attendee Profile

This conference will allow sponsors to build their own business network of engineering and technical professionals. It will give you the mechanism to increase turnover through access to a clearly defined target market. Why waste valuable marketing resources trying to reach the right people, when they will be at your fingertips?

This conference is an important event which brings together experienced professionals to present papers and case studies highlighting and examining Low Voltage & Arc Flash design, safety, new technologies and standards. This conference will provide a unique opportunity for companies with products and expertise in this area to reach their market of key decision makers.

A growing proportion of engineering and technical professionals are represented in most senior roles in industry, commerce, and government. They are among the CEOs and Managing Directors of Australia's top 500 companies and hundreds of dynamic small and medium enterprises around the country.

Industries

A multitude of industries will be present at the conference providing you with a wide range of exposure for your products and services. Some of the many industries that will be present include:

- | | | |
|-----------------------------------|----------------------------|-------------------------|
| Aluminum | Energy | Petroleum |
| Building services | Petrochemicals | Water Resources |
| Consulting engineers | Food Processing | Pharmaceuticals |
| Defence Industries | Manufacturing | Power Generation |
| IT Companies | Mining and Minerals | Oil & Gas |
| Hotels and Resorts | Telecommunications | Hospitals |
| Environmental Technologies | | |



Sponsorship Benefits Cont.

An IDC Technologies Affiliation

Partnering with IDC Technologies at this conference will provide numerous benefits that other conferences or marketing activities can not provide. A business association with IDC Technologies will provide you with the opportunity to develop:

Influential Associations

IDC Technologies enjoys global recognition as the premier engineering and technology training provider. Over the last twenty years, approximately 400,000 engineers and technicians have attended IDC training events. Our valuable clients come from many of the world's leading organisations.

Growing Business Opportunities

Representing your business at this conference will allow you to reach large and small companies and consequently direct and influence their decisions to purchase your products and services.

Access to Key Decision Makers

Allow yourself and your colleagues to network with decision-makers at the highest levels. In positions such as CEO, Managing Director, Engineering Director, General Manager, Engineering Manager, Chief Engineer, and Senior Engineer, these individuals drive the company's direction and make key purchasing decisions.

Access to Leading Engineering Professionals

Gain access to industry-acclaimed engineering experts for your clients and colleagues. All of our guest speakers will be available for consultation during networking sessions.

A Competitive Advantage for Business

IDC Technologies has a proven track record with business partners. Through our involvement in conferences, workshops and education programs globally, we have built and expanded our business network and ultimately, increased our bottom line.



Sponsorship Application Form

Contact Name:

Position:

Company Name:

Postal Address:

Billing Address:

Telephone:

Email:

Purchase Order #:

Signature:

Name:

Date:

I would like to confirm that the above organisation or individual is sponsoring the Melbourne Low Voltage, Earthing & Arc Flash Conference.

Please tick package:

- Gold Package
- Silver Package
- Networking Drinks

Total Cost: \$

Confirmation:

Please email this signed form to conferences@idc-online.com as well as high resolution images of your company logo and website link to be added to the brochure and website. Once we have received your application, we will review and send confirmation in writing along with an invoice for payment. Payment of the invoice must be made prior to the event.

Sponsorship Cancellation Policy

All cancellations must be made in writing to conferences@idc-online.com on or a minimum of 60 days prior to the conference date, after this date they will incur a 50% cancellation fee. Any cancellations within 14 days of the conference incur a 100% cancellation fee.

