

Presented by



Low Voltage Conference

AS/NZS 3000 & Arc Flash

7th & 8th September 2023

Sydney, 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 located in Australia, New Zealand, Singapore, United Kingdom, Ireland, India, USA, Canada and South Africa, IDC Technologies has an enthusiastic team of professionals who are 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. The aim is 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 [Home \(idc-online.com\)](http://idc-online.com)



Low Voltage Conference

An Overview

This conference will be of special interest to the electrical engineering community, as regulators are demanding continual improvement in low voltage design, maintenance and safety outcomes including arc flash safety.

This conference aims to review the application and best practice of the requirements laid down in the standard AS/NZS 3000:2018, commonly known as Australia-New Zealand Wiring Rules. The latest Wiring Rules were released in 2018 and this event will cover the amendments and how these changes are being effectively implemented in industry.

The primary purpose of the AS3000 standard, like many of its various other equivalent national standards, is to ensure the safety of personnel, livestock and property against the dangers (e.g. electric shock and fire) arising from the use and handling of electrical equipment and appliances. For those installations covered in the scope of this standard, its provisions are mandatory and must be followed. Any engineer involved in planning and design of electrical systems, installation or maintenance must have a clear idea about the various requirements contained in the standard.

The conference will also include best practice arc flash and isolation safety help reduce the number of arc flash incidents in Australia and New Zealand.

Arc flash is arguably one of the most topical issues being discussed today in the electrical engineering community in Australia (especially in the mining, utilities and manufacturing areas). Technology and safety procedures have significantly reduced most other forms of electrical injuries; however, incidents related to arc flash have surfaced as one of the leading causes of injury and death to workers.

The technical aspects and physics associated with arc flash are still somewhat debatable. There has been some concerns about the physics of electrical arcing faults being significantly different to those established by the USA with the NFPA 70E and the IEEE 1584 standards and the Canadian Standards Association (CSA) new arc flash safety standard CSA-Z462.

Call for Papers

Are you an electrical engineer, consultant, technologist or technician working with low voltage (LV) in the mining, industrial, oil and gas or utilities industry? We are looking for a number of presenters to submit a topic idea and present their papers at the upcoming **Low Voltage Conference which will cover AS/NZS3000 & Arc Flash Safety.**

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

IDC Technologies Conference presentations are non commercial. The focus is on providing practical applications and solutions – probably the best way to showcase your technologies and engineering skills. In particular we are seeking practical case studies, applications and the newest developments in this critical subject.



Topic Suggestions

LOW VOLTAGE DESIGN & INSTALLATION:

- Design case studies of an electrical installation
- Low voltage safety
- Standards and regulations
- Power system protection
- Electrical systems, earthing and bonding
- Application areas
- Alterations, additions and repairs alternative arrangements
- 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
- Coordination and discrimination
- 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)
- Hazardous areas
- Emergency systems

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

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 centered 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

Topic Suggestions Cont.

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)

Express Your Interest in Presenting

To Express an Interest

Please fill in the [Expression of Interest Form](#) and email to Conference Manager Arna Eru arna.eru@idc-online.com

What is required of presenters:

- A **100 word abstract**, which outlines the topic you would like to present. This needs to be submitted electronically as soon as possible, to secure your place.
- Once your topic is approved, your **technical paper and PowerPoint slides** will be due six weeks prior to the event.

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

Sponsorship Packages

Gold Sponsorship

Includes:

- Complimentary attendance for 2 delegates includes catering for two days & attendance to networking drinks
- Signage/banners displayed inside and/or outside the conference room
- Trade display in foyer (trestle table provided)
- Logo featured on conference brochure
- Logo on IDC web site
- Logo on conference manual
- Seat drop – gift/promotional material
- A copy of the attendee names and organisations post event
- Acknowledgement at opening and closing addresses
- Promotional material emailed to delegates post event.

4,200 Incl. GST

Silver Sponsorship

Includes:

- Complimentary attendance for 1 delegate for two days & attendance to networking drink
- Signage/banners displayed inside and/or outside the conference room
- Trade display in foyer (trestle table provided)
- Logo featured on conference brochure
- Logo on IDC web site
- Logo on conference manual
- Seat drop – gift/promotional material
- Acknowledgement at opening and closing addresses
- Promotional material emailed to delegates post event

\$2,800 Incl. GST

Networking Drinks

x 1 Available

Includes:

- › Complimentary attendance for 1 delegate for two days & attendance to networking drink
- › Naming rights of the networking drinks
- › A short speech to extend an invitation to the attendees during the conference closing address.
- › Signage/banners displayed in the space allocated for the networking drinks.
- › Logo on event webpage
- › Acknowledgement at opening and closing address

\$2,000 Incl. GST

Sponsorship Benefits

Attendee Profile

This conference will provide sponsors with the opportunity to build your own business network of engineering and technical professionals. It will give you the mechanism to increase your 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.

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, as well as 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 you with numerous benefits that can not be provided by other conferences or marketing activities. A business association with IDC Technologies will provide you with the opportunity to develop:

Influential Associations

IDC Technologies have the benefit of global recognition as the premier provider of engineering and technology training. Approximately 400,000 engineers and technicians have attended IDC training events over the last 20 years. Our valuable clients come from many of the world's leading organisations.

Growing Business Opportunities

Representing your business at this conference will provide you with the opportunity to reach large and small businesses and consequently direct and influence their decisions to purchase your products and services

Access to Key Decision Makers

Give yourself and your colleagues the opportunity 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 are involved in driving the direction of the company and making 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 sponsorship of the **Low Voltage Conference - Sydney** by the above organisation or individual.

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.