



MESA

MINE ELECTRICAL SAFETY
ASSOCIATION INC

WESTERN AUSTRALIA

MINE ELECTRICAL SAFETY **WA** 2026 CONFERENCE

17 – 18 NOVEMBER 2026

PAN PACIFIC PERTH, WESTERN AUSTRALIA

CALL FOR PRESENTATIONS



PREPARED BY



**Absolute Events
& Marketing**

EXCEEDING EXPECTATIONS

www.mesconferencewa.com.au

CALL FOR PRESENTATIONS

Based on the needs of the Western Australian mine electrical safety community, a well-connected local organising committee (with the support of MESA Inc and the Queensland Committee) hosted the inaugural Mine Electrical Safety Conference Western Australia (MESC WA) in 2019 and has continued to hold the conference with great success.

The 2026 MESC WA Conference will bring together government departments, consultants, suppliers and key industry decision makers within the electrical field to hear technical presentations on all matters relating to electrical safety within the mining industry with specific focus on the Western Australian industry.

Hosted by the Mine Electrical Safety Association Western Australia (MESA WA), the conference is a great opportunity to learn and network among some of the most knowledgeable people in Australia on mining and quarry safety. It is also an opportunity for you to contribute to the direction of mine electrical safety within the industry.

The MESC WA Committee welcomes submissions for 30 minute technical presentations (allocated time includes Q&A).

It is important that presentations are NOT a 'sales pitch' or a way of promoting an organisation's product or service – the presentation needs to provide information that is relevant and educational for the audience and showcases mine electrical workplace safety.

Key Dates

Submission Deadline	Thursday 16 July 2026
Notification of Submission Outcome	Tuesday 4 August 2026
Programme Released	Tuesday 4 August 2026
Presenter Registration Deadline	Friday 18 September 2026
Conference Dates	Tuesday 17 - Wednesday 18 November 2026

CONFERENCE THEMES

Submissions are invited under the following themes. Conference themes are also available to view on the [conference website](#).

ASSOCIATED BATTERY HAZARDS

The growing use of lithium-ion and other advanced battery technologies in mining introduces new challenges in hazard management, emergency response, and operational safety. Battery systems present risks including thermal runaway, toxic gas release, fire propagation, DC arc flash, electrical shock, and challenges associated with charging, storage, transport, and disposal. This theme explores practical approaches to battery risk management across the entire asset lifecycle, from equipment selection and installation through to maintenance, monitoring, and incident response. Presentations could include case studies, battery fire learnings, monitoring technologies, firefighting strategies, importance of PPE with suitable ratings, ventilation impacts, and evolving standards for battery safety in mining and hazardous environments.

CYBERSECURITY, AI AND ELECTRICAL CONTROL SYSTEMS

As mining operations become increasingly digitised and connected, electrical control systems face growing cybersecurity and operational technology (OT) risks. Industrial control systems, protection relays, SCADA networks, autonomous systems, and remote operations are now critical components of mine infrastructure, creating new vulnerabilities that can impact both safety and production. At the same time, artificial intelligence and advanced analytics are being introduced to improve monitoring, predictive maintenance, and operational decision-making. This theme explores the intersection of cybersecurity, AI, and electrical systems, including risk management, system resilience, human oversight, regulatory considerations, and lessons learned from cyber incidents and emerging technologies in mining operations.

FUNCTIONAL SAFETY

Functional safety is critical to ensuring that electrical and control systems respond correctly to dangerous conditions and effectively reduce risk to personnel, equipment, and operations. Mining environments increasingly rely on automated systems, programmable controllers, safety instrumented systems, and complex protection schemes where failures can have significant consequences. This theme explores the design, verification, validation, maintenance, and ongoing management of functional safety systems throughout the asset lifecycle. Presentations could examine practical applications of standards, safety integrity levels (SIL), machine safety, protection system reliability, human factors, and lessons learned from incidents involving safety-critical systems.

MICROGRIDS, RENEWABLES AND ELECTRICAL INFRASTRUCTURE INNOVATION AND SAFETY

Mining operations are increasingly integrating renewable energy systems, battery storage, and microgrids to improve sustainability, reduce emissions, and enhance energy resilience. These technologies introduce new technical, operational, and safety considerations for mine electrical networks, including protection coordination, system stability,

islanding, harmonics, energy storage integration, and maintenance of complex hybrid systems. This theme explores the safe implementation and operation of modern electrical infrastructure in mining environments. Presentations could include renewable integration projects, off-grid power systems, lessons learned from microgrid operations, emerging technologies, and innovations that improve electrical reliability, efficiency, and safety living and working around these systems.

MINE ELECTRIFICATION AND ELECTRICAL SAFETY

Mine electrification is transforming mining operations through the adoption of battery electric vehicles (BEVs), electric mobile equipment, and expanded electrical infrastructure. While electrification delivers benefits such as reduced emissions, improved ventilation outcomes, and lower operating costs, it also introduces new electrical hazards and operational risks that require careful management. This theme explores the safe integration of electrified mining systems, including charging infrastructure, high-voltage distribution, isolation practices, arc flash mitigation, emergency response, and maintenance considerations. Presentations could examine lessons learned from electrification projects, emerging standards, practical safety controls, and innovations that support safe, reliable, and sustainable mining operations.

SAFETY CULTURE AND REGULATIONS

A strong electrical safety culture is essential to preventing incidents and ensuring that systems, processes, and people work together effectively to manage risk. Regulations, standards, and compliance obligations continue to evolve as mining operations adopt new technologies and face increasingly complex operational environments. This theme explores how organisations build and sustain positive safety cultures while meeting regulatory expectations and improving operational performance. Presentations could include regulatory updates, enforcement learnings, leadership approaches, contractor management, incident investigations, human factors, and practical examples of how organisations are strengthening electrical safety outcomes through culture, governance, and continuous improvement.

THE EVOLVING ELECTRICAL WORKFORCE

The mining electrical workforce is rapidly evolving as operations adopt new technologies, automation, digital systems, and electrification initiatives. At the same time, the industry faces ongoing challenges including skills shortages, an ageing workforce, succession planning pressures, and the need to attract and retain competent personnel. This theme explores how organisations are adapting workforce capability through training, apprenticeships, competency frameworks, remote support technologies, and knowledge retention strategies. Presentations could examine workforce development programs, changes to electrical trades and engineering roles, future skill requirements, and practical approaches to preserving critical expertise while preparing the next generation of electrical professionals.

SUBMISSION GUIDELINES

SUBMISSION REQUIREMENTS

Presentation Information

- **Presentation Title** – 20 words maximum in Title Case
- **Presentation Type** – select one from available dropdown options
- **Presentation Theme** - select one from available dropdown options
- **Presentation Overview** – text only, 300 words maximum

Presenter Information

- **Presenter Headshot** – Provided in jpeg format and a head and shoulders style photo that will suit cropping into a circle
- **Presenter Biography - 100 words maximum**
- **Presenter Contact Details** - Direct email and phone number of presenter is required

Submission Guidelines

- Submissions are not to be a 'sales pitch' or a way of promoting an organisation's product or service – the presentation needs to provide information that is relevant and educational for the audience and showcases mine electrical workplace safety
- Submissions should provide sufficient information on the suggested presentation without the need for further details or clarification. Submissions should also demonstrate how the presenter has the relevant background to present on the topic
- Graphics cannot be included in your presentation overview
- One individual can submit up to a maximum of two presentations, however presenters will only be included in the programme once
- A submission can have up to a maximum of two presenters. These presenters must be entered as Speaker 1 and Speaker 2 (if applicable). Headshot, biography and direct contact details must be provided for both presenters
- If you do not receive an email confirmation within one hour of submitting, please contact the Event Organisers on mesconference@absoluteevents.com.au

SUBMISSION GUIDELINES

MESC WESTERN AUSTRALIA SUBMISSION PORTAL

All submissions must be made through the online submission portal and each submitter must set up an account. This account is specific to MESC WA 2026 only.

REVIEW OF SUBMISSIONS

All submissions will be reviewed by the MESC WA Committee and will be assessed based on the following criteria:

- Contribution to the overarching technical programme
- Contribution to the body of knowledge in the selected theme
- Relevance to and educational for the audience and a topic that showcases mine electrical workplace safety
- Overview must provide sufficient information to allow the submission to be reviewed without the need to ask further questions
- Submissions must not be a 'sales pitch' or a way of promoting an organisation's product or service

Please note that MESC WA Committee reserves the right to allocate presentations to the best advantage of the programme

Queries

For any queries, please contact the MESC WA Event Organisers on the details below.

Absolute Events & Marketing

Phone: 07 3848 0089

Email: mesconference@absoluteevents.com.au

Website: www.mesconferencewa.com.au



SUBMISSION POLICIES

SUBMISSION TERMS AND CONDITIONS

All submissions must meet the guidelines outlined in this document and the below terms and conditions are applicable to all submissions.

Confirmation of acceptance of these terms and conditions is required prior to submitting.

- Submissions must be original work, written in English and free of typing/grammar errors. Accepted submissions will be printed as received
- All submissions must be completed electronically via the online submission website. If you are unable to submit in this manner, please contact the Event Organisers to discuss options. The Event Organisers will not be held responsible for submissions that are not received via the online submission site or for any submission errors
- All correspondence will be emailed to the primary presenter. It is the responsibility of the primary presenter to forward correspondence to co-presenters and co-authors
- Submission does not constitute an acceptance of the presentation
- **Presenter Registration:** If the submission is accepted, all presenters must register and pay the discounted registration fee within the required deadline in order to present at the conference and to ensure publication of the presentation (in the conference programme and on the conference website)
- **Publishing Consent:** All accepted presentations will be published as received on the conference website and in the conference programme book. Consent is also provided for the presentation slides to be used and published (in PDF format) by MESC WA including being provided to all attendees of MESC WA 2026 and to MESA Inc. Please advise the Event Organisers if you do not provide consent for publication of presentation slides
 - If consent is not provided, a minimum of 3 slides with key highlights will need to be provided (cannot be an organisation or product brochure)
- **Photo/Video Consent:** If the presentation is accepted, consent is provided for the photos taken during the presentation to be used and published by MESC WA, including being provided to all attendees, and provided to MESA Inc and Absolute Events & Marketing
- **Change in Presenter:** Once the presentation has been approved and allocated, any change in presenter must be reviewed for approval by the MESC WA Committee. If the change in presenter is not approved, the presentation may be removed from the programme