

HAZARDOUS AREAS WA CONFERENCE

FOR MANUFACTURING, MINING, PROCESSING AND UTILITIES

Keynote Speaker

NEIL DENNIS

Technical Director
Power and Industrial, AECOM
Chairman of EL 14, Hazardous
Areas Main Committee
Deputy Chairman of MS 11,
Classification of Hazardous Areas



WHAT YOU WILL GAIN FROM ATTENDING:

- Hear about hydrogen gas projects in Australia and overseas
- Update your knowledge on hazardous areas equipment and technologies
- Learn how to design and install safe working systems in hazardous areas
- See how Australian and international standards are being successfully applied
- Find out how the changes to AS/NZS 60067.14: 2017 impact you
- Learn about hazardous areas equipment installations through case studies and critical discussion
- Learn how to prepare your business for a hazardous area audit/inspection
- Discuss critical issues of compliance to standards with experienced hazardous area professionals
- Find practical solutions to your hazardous safety problems
- Network with experienced safety experts and your peers

WHO SHOULD ATTEND:

- Instrumentation and Control Engineers
 - Engineering Managers
 - Process Plant Engineers and Technicians
 - Plant Managers and Project Managers
 - Process Maintenance Technicians
 - Risk Assessors
 - Chemical, Process & Mechanical Engineers
 - Instrumentation Technicians
 - Design Engineers
 - Manufacturers of Hazardous Areas Equipment
 - Safety Facilitators
 - Electrical Technicians and Managers
 - Process Control Specialists
 - Process Safety and Loss Prevention Managers
 - Government Safety Regulators/inspectors
 - OHS/Training Managers
 - Tradespersons working in potentially explosive areas
 - Electrical and Instrument Tradespersons
- And all engineering professionals who have an interest in hazardous areas

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INTRODUCTION TO HAZARDOUS AREAS

This conference has been created for those concerned with the safe use of electrical, mechanical and instrumentation equipment in hazardous, flammable or explosive atmospheres, thus preventing accidents and injuries in the workplace.

The content of the conference will focus on the latest standards and how best to apply them, ensuring compliance for hazardous area audits. Experienced speakers will examine the critical issues involved in the management of hazardous areas.

Conference Day One – 3rd July 2019

8.00am Registrations Open

8.25am Opening Address

8.30am Hot Buttons in Adopting IEC Standards for Hazardous Areas

Session 1
Neil Dennis – Technical Director - Power and Industrial, AECOM



KEY NOTE

Australia has been adopting IEC standards for hazardous areas for nearly 20 years. We now have a mix of identical adoptions, modified adoptions, standards in view and IEC standards we may not want to consider. This presentation looks at the adoption process covering how, why, people, politics and what we can learn from. Along the way some hot technical issues currently being discussed in the IEC will be raised. New research and working in a global framework are challenging old practices and previously accepted principles. This is a call to look at the big picture for the next 20 years.

9.30am Electrical Equipment in Explosive Gas Atmospheres: Field Inspections

Session 2
Bill Rankin – Electrical Engineer/EEHA Inspector, Texeco



CASE STUDY

Electrical equipment and installations that fall within explosive atmospheres are required to comply with the applicable regulations of the Australian State or Territory. The general requirements for the design selection, erection and initial inspection of equipment for explosive gas atmospheres are detailed in AS/NZS 60067.14: 2017. The requirements of this standard are mandatory for onshore installations and are called up in the applicable Acts or Regulations of each State or Territory. This presentation will provide a guideline as to the techniques involved in conducting value-adding Electrical Equipment in Hazardous Areas (EEHA) inspections in explosive gas atmospheres and will include practical examples, lessons learned and templates used for conducting visual, close and detailed inspections.

Morning Tea – 10.15am

10.45am Compliance Requirement for EEHA – Current Challenges and Opportunities

Session 3
Jatinder Ahuja – CEO, Project Management Vision



In this technical talk, Jatinder will cover EEHA competency requirements for Electrical and Non-electrical workers according to IEC Standards. He will explore the following topics:

- Is EEHA Competency adequate to meet the emerging industrial demand for an electrical worker?
- EEHA Regulatory compliance requirements, expectations and trends
- The impact of renewable energy on EEHA compliance
- Future of harmonisation of AS/NZS standards with IEC/international standards
- The impact of the AS/NZS 3000:2018 upgrade on EEHA compliance
- Career pathways for electrical workers in hazardous areas installations

11.30am Explosive Atmosphere - Personnel Competencies

Session 4
Mike Marrington – Quality Auditor & Ex Consultant (IECEX/ATEX/HazLoc/CEC/NEC 500&505/EEHA)



CASE STUDY

Arpad Veress – Managing Director, ExNB Certification Institute (United Arab Emirates)

The goal of this presentation is to raise awareness of industry shortcomings, solutions, and emerging trends. Mike and Arpad will discuss the meaning of “competency”, how it is prescribed in IEC/ATEX/NEC, how it can be described by other terminology between countries, and the scope and roles within industries. Legislation, regulations, Standards and responsible bodies will also be covered. Lastly an exploration of voluntary vs mandatory solutions by differing countries, positive outcomes and room-for-improvement including:

- Existing solutions Ex Competency
- Cost and time considerations
- How is evidence presented?
- How was competency achieved?
- How was trainer & assessor competency assured?
- Are client/stakeholders needs met?

Case studies from past and shared experiences will be used to encourage open and frank discussion amongst attendees.

Lunch – 12.15pm

1.15pm Session 5

Classification of Hazardous Areas for Hydrogen Gas

Rick Joubert – Director and Principal E & I Engineer, Lighthouse Enterprises



CASE STUDY

Hydrogen is an abundant and clean gas with unrivalled environmental benefits if used as a fuel source. Australia is following hard on the heels of the Leeds H21 hydrogen gas project with many domestic hydrogen gas distribution networks being proposed in Australia, including in WA. Hydrogen gas, like natural gas is a lighter than air gas, however it is ultra-light by comparison giving it some unique characteristics that need to be considered. Current training for EEHA classification has been predominantly based on natural gas. Hydrogen is currently infrequently used, so there is not a lot of experience with it. Current Australian standards are somewhat deficient in addressing the nuances associated with Hydrogen, which cannot be treated like natural gas. Here Rick will discuss his extensive personal experience with hydrogen, incident investigations of uncontrolled hydrogen release and subsequent ignition and audits on facilities utilising hydrogen.

2.00pm Session 6

Managing Mega Project Data Integrity

Aaron Drew – Director & Engineering Manager, Imperium Engineering



Mega project EEHA engineering requires significant forethought, engineering and project controls, it also happens to be an exercise in data integrity management. Experience shows that despite large company processes and procedures there is still a gap in the EEHA space with regards to controlling engineering decisions and data management. To quote several Tier 1 company responses “EEHA engineering is still an ad-hoc process”. In this presentation, Aaron will explore the process of breaking this paradigm.

Afternoon Tea – 2.45pm

3.15pm Session 7

Electronic dossier - Hazardous Area Inspection Management, Planning and Implementation

Tom Wayte – Project Delivery Lead, Haztech Solutions



AS/NZS 3000 wiring rules requires all electrical equipment installed in the hazardous area to be inspected to ensure that the integrity of Ex protection afforded to the equipment is maintained throughout the life of the installation. The inspection process can be time consuming when performed manually, but with recent technology advancements, it is now possible to complete these processes electronically and in much less time. Inspection sheets and reports can be easily generated on the day without significant administration delays. Tom will discuss how he implemented electronic inspection procedures in his past projects, and how it improved the management efficiency of EEHA inspection, maintenance and remediation, leading to substantial cost saving.

4.00pm Session 8

Hazardous areas - Training and Equipment Compliance

Paul Egan – Electrical Training Specialist, Coex Training



In this presentation Paul will discuss the following hazardous areas training topics:

- Requirements for conformity
- Conformity Assessment Documents (CAD)
- Confusion with compliance and WA Legislation
- What is HA equipment?
- Working in HA (Inspections, maintenance, auditing)

Closing – 4.45pm



NETWORKING DRINKS SESSION – 5.00 to 6.00pm
An hour dedicated for all attendees to meet and socialise with experts and industry peers at the Hazardous Areas WA Conference Networking Drinks Session

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Email: conferences@idc-online.com

Web Site: www.events.idc-online.com

Mail: IDC Technologies, PO Box 1093, West Perth, WA 6872



Conference Day Two – 4th July 2019

WORKSHOP 1

8:30am – 12:00pm

Current and Future Technical Developments for Hazardous Area Standards

Since 2013 there have been a number of significant new changes in the IEC end user standards for hazardous areas which are still filtering down into the ANZ standards. But the changes haven't stopped coming and more is on the way in both arenas. These changes include classification of hazardous areas, electrical installations and inspections, certification of assemblies, pressurisation and ventilation systems for rooms, safety devices, gas detection, spray booths, adverse environments, competencies and more.

This workshop will delve into some of the key technical details and give an insight into what and why changes are being made to the hazardous area standards.

WORKSHOP 2

1:00pm – 4:30pm

Practical Impacts of Changes in the 2017 Edition of AS/NZS 60079.14

The 2017 edition of AS/NZS 60079.14 introduced many changes, including to the acceptable standards and schemes for certification of equipment and assemblies of equipment, requirements for cable entries (in particular entries to flameproof enclosures), and requirements for terminal boxes in intrinsically safe circuits and systems.

This workshop will present some examples of practical impacts from these changes one year after their publication, and will attempt to provide useful guidance for the avoidance of potential compliance issues that may arise as a result of the new requirements.



WORKSHOP PRESENTER:

NEIL DENNIS

Technical Director - Power and Industrial, AECOM

Neil is a technical director and principal electrical/mechanical engineer with AECOM Australia. Neil has over 35 years experience working in hazardous areas as a consultant with a variety of companies in petroleum, petrochemical, wastewater and food industries as well as specialist manufacturing and processing plants.

Neil is a licensed electrical inspector in Victoria for hazardous area installations and is a registered specialist in this field with Energy Safety Victoria. Neil has been an active member of Australian Standards committees for hazardous areas since 1992 and IEC standards committees since 1999. He holds a number of current positions on Australian and New Zealand joint standards committees including:

- Chairman of EL 14, Hazardous areas main committee.
- Deputy Chairman of MS 11, Classification of hazardous areas.
- Chair IEC sub committee SC31J for electrical installations and classification of hazardous areas.
- Member of other sub committees and working groups including protection by ventilation, mechanical equipment and dust hazards.



WORKSHOP PRESENTER:

GARETH TALAMINI

Director, Extend Training

Gareth is a semi-reformed electrical engineer, currently applying his technical knowledge and communication skills to developing and delivering training courses and software solutions for hazardous areas. Gareth is the managing director of Extend Training and sits on Australian Standards committee MS-066, which is responsible for drafting AS/NZS 4761. He is also a director of Ex-Online, a provider of cloud-based software for managing hazardous area verification dossiers and equipment inspections. Gareth is a regular speaker at IDC conferences and events.

Workshops include morning tea, lunch and afternoon tea



All conference papers are reviewed and selected for their high quality and technical value by our panel of specialists experienced in the theory and practice of Hazardous Areas.



Sponsorship Opportunities

Representing your business at the Hazardous Areas WA Conference in 2019 will provide you the opportunity to reach key decision makers from a multitude of industries. For more information on sponsorship and exhibition opportunities please contact Sarah Montgomery via email conferences@idc-online.com



REGISTRATION FORM: HAZARDOUS AREAS WA CONFERENCE

3rd & 4th July 2019, Mercure Hotel, Perth

Simply complete this registration form online or return via email

EARLY BIRD OFFER:

10% off the conference fee
for registrations received
before 5th June 2019
– SAVE \$179.50

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Register 3 delegates
and only pay for 2
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2. HOW DID YOU HEAR ABOUT THIS EVENT?

Received a brochure in the mail
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 Other (please specify) _____

3. REGISTRATION & PAYMENT DETAILS

Prices shown are inclusive of GST

HAZARDOUS AREAS WA CONFERENCE: 3RD & 4TH July 2019

OPTION 1: Early Bird Discount 10% OFF – Book on or before 5th June (SAVE \$179.50)
 $\$1615.50 \times \text{_____ delegates} = \$ \text{_____}$

OPTION 2: Standard Rate (NO Early Bird) – Book after 5th June
 $\$1795 \times \text{_____ delegates} = \$ \text{_____}$

OPTION 3: 3 for 2 Offer & Early Bird 10% OFF – Book on or before 5th June (SAVE \$2154)
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OPTION 4: 3 for 2 Offer Standard Rate (NO Early Bird) – Book after 5th June (SAVE \$1795)
 $3 \times \text{delegates} \quad 2 \times \$1795 = \$3590 = \$ \text{_____}$

Additional delegates: Corporate packages available upon request **TOTAL DUE = \$ _____**

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

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

Venue

Mercure Hotel Perth
10 Irwin St, Perth WA 6000
AUSTRALIA
Phone: (08) 9326 7000

Accommodation

The conference venue has accommodation available. Each conference guest that books direct to the hotel gets 19% off the best available rate of the day. Please note this rate will be based on availability. Please book through our reservations team on (08) 9326 7000 or h1754@accor.com.

Food and Beverages

All lunches, morning and afternoon refreshments are included.

Unable to Attend

If you are unable to attend the full conference program, contact us for details to attend individual sessions or to purchase the Conference Resource Kit.

Enquiries

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