



SEMINAR

Gain a deeper understanding of lightning and its consequences

Improving safety in structures: The architectural challenge lies in the aesthetic achievement integrated with the safety and engineering achievement/ accomplishment for the architectural challenge lies in the integration of the engineering and safety requirements with the conceptual and aesthetic achievement.

Risk Management: Your structure will get struck by lightning, it is a question of statistics as to how often that will occur. The consequences of that event are what you need to accommodate in the provision of a safe structure for the consequences of that event are what you should accommodate in the implementation of a safe final product.

A brief course outline:

Session 1:

General Principles

- What is lightning, what dangers does it pose
- Lightning parameters and findings
- People and animals, the mechanism of shock
- The sources of damage
- Types of damage due to lightning
- Types of loss due to lightning
- Discriminating structures and services

Session 2:

Risk Management

- Economics of Lightning Protection.
- Definition of the risks such as:
- Loss of Life
- Loss of Service
- Loss of Cultural Heritage

Session 3:

- Technologies in use:
- Protection Measures
- Protection Measures Services
- Lightning Protection Zones
- Separation Distances



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Session 4:

- The 5 components of LP systems.
- LP systems efficiencies
- Importance of integration
- Corrosion and its risks
- How to ensure quality of installation
- Testing & Maintenance

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GET BACK TO FIRST PRINCIPLES:

- Understand the physics of lightning, be aware of the risks
- Understand electrical safety and the mechanisms of shock
- Understand electrical safety and the role of earthing
- Understand how lightning damages equipment
- Know and teach others how to reduce risk of injury/death
- Learn to calculate how often your plant will be struck
- Protect staff who work in exposed environments
- Learn how lightning can affect personnel, plant, equipment and material
- See how earthing is the cornerstone of Electrical Safety



ASK YOURSELF:

- Are your emergency assembly areas safe during adverse weather, learn how to fix it?
- Do you unplug equipment when lightning roars, why not in the first world, fix it?
- Ever had problems with lightning and equipment, fix it?
- Noise on the radios making clarity and understanding difficult, fix it?
- Is static charge build up damaging quality, threatening safety, fix it?
- Storage of explosives, know how to ensure safety.
- Validate your planned maintenance program results.
- Staff working in exposed environments, lightning shelters.
- Does your evacuation route planning accommodate lightning strikes?

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This is what Graham King of NOSA had to say after one of our in-house courses

"Without a doubt, safety officers, and in the case of NOSA, our auditors of HSE management systems all benefited from the useful information Mike provided in his training course. It has certainly increased our companies' auditor's knowledge and awareness of the associated hazards, risks and control measures thereby enabling our companies' auditors to deliver added value to our clients. We are looking forward to having him back."

Presented by:

MIKE VISSER

Managing Director

Mike Visser is the Managing Director of Power Quality Company (PTY) LTD, a 25-year-old specialist earthing and lightning protection company. Mike is one of Africa's highest rated presenters on this subject matter based on delegate feedback forms. This course has been developed specifically with safety officers in mind.

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