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Course Code 20-11AB17-2

Electrical Equipment in Hazardous Atmospher (EEHA)

Course Overview

The training and practical assessment programme is provided for electrical personnel who undertake the physical installation and assembly of new 'Ex' equipment and who perform preventative maintenance and inspections on previously installed equipment.

This course provides a comprehensive technical approach to hazardous areas It explains the subject of explosion protection applied to electrical equipment in such areas. The course offers detailed explanations of the principles involved, the techniques used and the management structures and requirements to comply with the harmonized international standards that are now in place.

Who should attend?

This programme is appropriate for mid-level HSE engineers, warehouse supervisors and project managers, as well as senior project managers, senior technical specialists, and lower-level engineers.

Topics covered

- Basic principles of explosive atmospheres
- Gases and vapours
- Combustible dusts
- Hazardous area classifications
- Class/division system
- Zone system
- Protection techniques and methods
- Hazard defining and importance of risk assessment
- Types and usage of explosion-proof equipment
- Electric equipment inspection and documentation
- Differentiation between hazard and risk
- Relationship between fires and explosions
- Basis for an explosion
- The three explosive factors
- Basic concept for explosion protection
- Explosive range
- Explosion protection and prevention
- Protection principles
- Types of protection
- Classification of hazardous areas
- Non-explosive electrical equipment
- Temperature classes
- Risk assessment and record keeping
- Proactive equipment requirements
  - Where needed
  - Types of protection
  - Fitting requirements
  - Suggested records
  - Tests/examination needed)
- Illness costs and statistics
- Eliminate and combat risks
- Economic impact of NOT implementing a proper APP
  - Direct cost
  - Hidden cost
- Reporting
- Types of emergencies
- Safety committee meetings

Duration: 3 days (24 hours in total, assuming an 8-hour day)

QHSSE