



Fire and Explosion Risk Analysis

Ensure your operation facilities and equipment

An improvement in Safety Management System, Electrical and Fire Prevention System within your plant management can potentially bring significant business benefits. TÜV Rheinland provide training related to Fire Safety, to ensure your operation facilities and the equipment's used in operation are safe and fit for services.

BASIC FIRE & EXPLOSION SCIENCE BEHAVIOUR

- Safety concept and process hazard analysis
- Fire triangle and fire tetrahedron
- Flashover and backdraft
- Cause of fire and explosion
- Electrical fire
- Electrostatic fire
- BLEVE (Boiling Liquid Expanding Vapor Explosion)
- Dust explosion
- Lighting strike
- Detonation and deflagration

ELECTRICAL SAFETY

- Circuit breaker and cable sizing
- Electricity and magnetism
- Electrostatic
- Bonding and grounding
- Hazardous area classification
- Lighting phenomena and protection
- LOTO (Lock Out Tag Out)

FIRE AND EXPLOSION RISK ASSESSMENT

- Basic concept of fire and explosion risk assessment
- Fire and explosion risk assessment for building using CFSES (Computerized Fire Safety Evaluation) method
- Fire and explosion risk assessment in oil, gas, and chemical processing plant
- Fire protection base NFPA-850 for power generating

FIRE AND EXPLOSION INVESTIGATION - FORENSIC ENGINEERING

- Fire and explosion basic principles
- Fire and explosion tools
- Reporting
- Fire pattern analysis
- Blast pattern analysis
- Laboratory analysis
- Case study

OUR EXPERIENCE - YOUR BENEFIT

As one of the leading testing, inspection and certification companies, TÜV Rheinland can offer certification at a consistent level in every location, on every continent. Our clients can be sure that we apply cutting-edge innovations and established technologies to find the best solution for every business. We help you to gain market access and get your products to market quickly to increase your profits.

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