



Hazardous Area Awareness

Basic Principles of Explosion Protection for Explosive Atmospheres

COURSE OBJECTIVE

Attendants will gain knowledge about basic principles of explosion protection, Ex-equipment, requirements of standard series EN/ IEC 60079 for safe operation with Hazardous Areas. The course is conducted in classroom format with quizzes and encouraged participation.

COURSE CONTENT

The two-day training will cover the basic aspects or fundamental for explosion protection based on EN/ IEC 60079 series supported with example and experience sharing:

- Properties of flammable materials and definitions
- Hazardous areas and ignition sources
- Ex philosophy, explosion prevention & protection
- Basic of areas classification (Zones)
- Standards for explosion protection (EN, IEC)
- Equipment protection types: Ex d, Ex e, Ex i, Ex n, Ex p, Ex t, and others
- Equipment Category, Equipment Protection Level
- ATEX/ IECEx equipment certification & marking
- Basics for selection, installation, inspection and maintenance of Ex-equipment (EN/ IEC 60079-14, -17)
- Permit to work and safe isolation
- Knowledge, skills, competencies and IECEx CoPC

RECOMMENDED PARTICIPANT

- **Role:** People who are working with explosive atmospheres for all duties (e.g. operation, electrical installation, inspection and maintenance, technical supervision, plant management, etc.)
- **Industry:** Drill ships & FPSOs, oil refineries, oil and gas tankers, grain handling & storage processing, chemical processing plants, printing industries, fertilizer plants, sugar refineries, aircraft refuelling centres and hangars, etc.
- **Pre-requisite:** nil

COURSE DETAILS

Duration	Two days
Location	Singapore, Thailand
Certification	Certificate of Attendance, upon 100% attendance

TRAINING PROVIDER

TÜV Rheinland is a global leader in independent inspection services and personnel qualification. Our trainers are Expert in Explosion Protection with a solid background in IECEx, and ATEX directives, as well as safety and compliance topics.

REGISTRATION

Contact us or check our [training schedule](#).

TÜV Rheinland
Industrial Services
Tel: +65 6562 8750
info@sin.tuv.com

www.tuv.com

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