



CONTACT INFORMATION

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Ex Awareness course



SCOPE

The training would take place over One day, the day being knowledge transfer in a suitable training room. The lists below are the subject headings to be covered in the classroom followed by a more detailed description of the topics covered.

COURSE OVERVIEW

The course is intended to give an overview and awareness to the candidate with regards to explosive atmospheres formed by gases, vapors mists and/or combustible dusts. It covers both electrical and mechanical equipment; it does not cover the design, selection, installation, inspection and maintenance of electrical equipment.

DSEAR (European Directives) / IEC Standards and North American Standards

Legal aspects of the Dangerous substances and explosive atmosphere regulations e.g. ATEX 1999/92/EC and CAD 98/24/EC;

EXPLOSIVE ATMOSPHERES

Definition of the three groups associated with gases vapors and mists and combustible dusts, surface temperatures, temperature classes, density of gases and vapors, flammable range and explosive range. Ambient temperatures etc.

ATEX Directive 94/9/EC (Equipment)

An overview of what the equipment marking on different types of equipment means.

Equipment Protection Levels (EPL's)

What they are and what do they mean?

Ex Awareness course

SOCIAL NETWORKING



Headquarters

158 N Tunnel Road
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Area Classification

Covers the basic requirements of IEC 60079-10-1 gases and vapor and IEC 60079-10-2 combustible dusts e.g. zone types etc. ventilation, openings etc.

Protection Concepts

An overview of the concepts as applied to equipment for use in explosive atmospheres e.g.

- Gas concepts - d, e, i, m, n, o, p, q.
- Dust concepts - tD, iD, pD, mD
- Non-electrical concepts: c, b, k, p, d and fr

Ignition Sources

A brief overview of the thirteen ignition sources as detailed in IEC 1127-1:2007

International (Ingress) Protection/NEMA Code

Introduction and explanation of the terminology used for equipment with regards to ingress protection e.g. IP54 or IP67 which is the better and why.

Installation practices gas/vapors and dusts

Overview of the requirements of IEC 60079-14:2008 with regard to the installation of equipment
Inspection and Maintenance gases/vapors combustible dusts

Overview of the requirements of IEC 60079-17:2007 with regard to the inspection and maintenance of equipment