Fact Sheet No.3

CompEx Module Ex F (Foundation)

Course Duration

2 days

Location

Exveritas Training Centre (Wrexham, UK) or Exveritas/Jones Engineering Services Training Centre in Little Island, Cork or Client Site/ Hotel Conference Suite or other similar location
At facilities other than ExVeritas Training Centre or Jones Engineering Services Training Centre, the minimum number of candidates will be eigfht.

Examined

Yes

Certificate issue

Yes

Target Audience

Supervisors, Contract Managers, Senior Management, Operators and Non-Practitioners.

Course Overview

The Foundation course provides an overview of the requirements for working safely in a potentially explosive atmosphere. The main aim of the course is to cover some of the basic key elements to enable the adoption of safe working practices and provide a greater appreciation of the hazards associated with working in explosive atmospheres.

All presentation material is in Microsoft PowerPoint, whilst electronic (hard copies are available at cost) hand-outs are available in either PowerPoint (three slides per page) some of the presentations are available in word documentation format. The format of the course notes are intended that they can be used as an aide-memoir tool in the future for the candidate.

Course delivery and all assessment material are currently in English.

Course Content

Due to the limitation of time associated with the course only an overview of each topic can be covered. There are a number of modules available that cover topics such as:

Explosive Atmospheres

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

Health & Safety

Introduction to safe working practices in explosive atmospheres

ATEX Directive 2014/34/EU (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?

Area Classification

Covers the basic requirements of the latest edition of IEC 60079-10-1 gases and vapour 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 the latest edition of EN 1127-1

International (Ingress) Protection

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.

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Installation practices gas/vapours and dusts

Overview of the requirements of the latest edition of IEC 60079-14 with regard to the installation of equipment

Inspection and Maintenance gases/vapours combustible dusts

Overview of the requirements of the latest edition of IEC 60079-17 with regard to the inspection and maintenance of equipment

Videos

There are a number of video's that will be shown to support the course objectives.

Assessments

The candidate's knowledge is assessed by undertaking a multi-choice examination, this examination is completed on-line.

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