



Explosion Protection International Training Ltd

Intrinsic Safety Principles

Course Overview

The course covers Intrinsically Safe interfaces, system applications, installations and maintenance practices. It also gives an understanding of other protection concepts relevant to IS.

Course Content

- Concept of zones and area classification methods
- Current standards and certification in accordance with ATEX 94/9/EC
- International changes in legislation
- Dangerous Substances and Explosive Atmospheres Regulations (DSEAR)
- Implementation of ATEX 1999/92/EC and the safety aspects of Chemical Agents Directive
- Properties of hazardous and flammable materials
- Principles of Ex'd', Ex'e', Ex'n' and Hybrid. Protection concepts for zone 0
- Intrinsically safe Zener safety barriers and Isolator interface characteristics and terminology
- Use of reference curves for resistive, capacitive and inductive circuits (EN60079-11)
- Intrinsically safe systems and installations (EN60079-11/IEC60079-25)
- Cabling arrangements
- Intrinsically safe remote I/O Profibus Fisco and Hart
- Earthing and bonding
- Inspection and maintenance (EN 60079-17)
- Exercises and practical sessions
- Written Assessment

Target Audience

The course is aimed at all personnel involved in the selection, operation, installation and maintenance of intrinsically safe apparatus and associated equipment.

Venue

Blackburn Business
Aberdeen, UK
AB21 0PS
Tel: 01224 798635

Course Times

9.00am - 5.00pm

Course Price

£496.00 per delegate

Duration

2 - Day

Lunch

Included

Dates

Dates on request

Min. delegates

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Special Requirements

None

Certification

A Certificate of Competence will be provided detailing the contents in the course.
Validity 4 Years.