TECHNICAL
EDUCATION
ACADEMY

School of Engineering

COURSE PROGRAMME

000183

ELPO003 - Explosive atmospheres or Hazardous Areas

Explosive atmospheres or Hazardous Areas (where a flammable vapour, gas or dust is present) are found in many sectors of industry.



Learn from the Best in the Business!

Course overview

Foundation level

Why take this course

Explosive atmospheres or Hazardous Areas (where a flammable vapour, gas or dust is present) are found in many sectors of industry. This course provides participants with an understanding of the dangers of working in hazardous areas, the methods by which explosions are prevented and the requirements of the ATEX and DSEAR Directives.

Who it is for and how it helps

Anyone involved in carrying out work in hazardous areas, or supervising others in carrying out such work will benefit from this course. No prior knowledge of explosion protection is required.

Curriculum

Modules 01–09

01 The dangers of dust, gas, vapour and mist in the air

- The dangers of dust, gas, vapour and mist in the air

02 Zone diagrams and the meaning of Zones 0, 1, 2 and 20, 21 and 22

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03 Equipment temperature classifications and gas grouping

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04 The upper and lower flammable limits of gases and vapours

- The upper and lower flammable limits of gases and vapours

05 The factors that caused a range of example industrial explosions to occur Identifying the protection methods used (Ex ia, Ex ib, Ex d, Ex p, Ex e, Ex m, etc)

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06 The commonly used ATEX symbols marked on equipment

- The commonly used ATEX symbols marked on equipment

07 Deciphering rating plates of ATEX equipment

- Deciphering rating plates of ATEX equipment

08 The importance of assembling cable glands and enclosure seals correctly

- The importance of assembling cable glands and enclosure seals correctly

09 The dangers of explosive vapours travelling along ducts, channels, cable conduits etc

- The dangers of explosive vapours travelling along ducts, channels, cable conduits etc

Curriculum

Modules 10–11

10 Evaluating the maintenance requirements of equipment in hazardous areas

- Evaluating the maintenance requirements of equipment in hazardous areas

11 The application of the ATEX and DSEAR Directives.

- The application of the ATEX and DSEAR Directives.

Joining the programme

Contact the Academy and quote course code 000183 to confirm dates, delivery format, prices and enrolment terms.

Training for your team

Tell us your business goals, the roles and number of participants, and your preferred dates and location. This will help us discuss the right training option.

Preparing for the programme

The published programme does not specify any prerequisites. Contact us before enrolling to confirm how to prepare.

Discuss your training needs

mail@tecedu.org
www.tecedu.academy

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