TRAINING COURSE

Area classification

This two day course provides an overview of different classification and regulations of hazardous areas.

1st - 2nd October 2019 - Manchester, Marriott Renaissance Hotel
24th - 25th March 2020 - Teesside, ABB Office
13th - 14th October 2020 - Daresbury, ABB Office
Area classification

What is your process? Can you have combustible / flammable atmospheres?

Have you identified the likelihood of a combustible or flammable atmosphere occurring?

As part of the overall assessment have you a documented area classification?

The classification of hazardous areas is an integral part of the overall risk assessment process required under Regulation 7 of the Dangerous Substances and Explosive Atmospheres Regulations 2002 (DSEAR) and Regulation 9 of the Prevention of Fire and Explosion and Emergency Response Regulations 1995 (PFEER).

Its purpose is to define the extent, frequency and duration of an explosive atmosphere (the zone). The zone in turn defines the requirements for the selection of equipment and protective systems so as to control sources of ignition.

Compliance with DSEAR is mandatory for any onshore operator handling dangerous substances and PFEER for any operator of fixed offshore installations.

What the course will cover
- Introduction to DSEAR (2002) and in particular the requirements for area classification and selection of equipment to avoid ignition sources
- The flammability of gases, vapours and dusts and how they relate to area classification
- Introduction to BS EN 60079-10-1:2015 the British Standard for area classification relating to gases and vapours. The scope of this standard is addressed, in particular the grading of releases and the effect of ventilation
- The course provides an overview of two widely used codes, EI15 edition 4 and SR25 edition 2 including syndicate exercises
- Introduction to BS EN 60079-10-2:2015 the British Standard for area classification relating to dusts. The scope and use of this standard is addressed, complete with a syndicate exercise

Who will benefit and what will they gain?
The course should suit recent graduates and experienced staff with operations, process, engineering and safety responsibilities.

On completion you should be able to:
- Understand why area classification is carried out
- Understand the principles of area classification
- Understand the steps in the area classification procedure
- Identify the grades of release and how they relate to zoning

Duration: 2 days
Price
Member of IChemE - £1160 + VAT
Non-Member - £1220 + VAT
- Appreciate the industry codes available that can be used to establish the extent of zones
- Understand the requirements for selection of equipment to be installed in potentially explosive atmospheres
- Join an area classification meeting and work under the direction of an experienced practitioner

**The training method**
Lecture presentations are supplemented with case studies and syndicate exercises.

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**Course leader**
Peter Hodgson is a Senior Consultant with ABB. Peter has over 10 years of experience in the ATEX and DSEAR field, including Hazardous Area Classification, DSEAR Compliance, and Mechanical Equipment Risk Assessment, in many industries including oil & gas, chemicals, paints and coatings, material handling, pharmaceuticals and offshore.

This course meets the requirements of Continuing Professional Development (CPD).

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### Day one agenda* (9am-5pm)

**Introduction to DSEAR (2002) and how area classification plays an integral part in assessing the risk to personnel**

**The flammability of gases, vapours and dusts and how they relate to area classification**

**Use of an ‘industry code’**
- EI model code of practice in the petroleum industry, part 15, edition 4. ‘area classification code for installations handling flammable fluids’
- Overview
- Structure

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### Day two agenda* (9am-5pm)

**BS EN 60079-10-1:2015 (gases and vapours) - british standard ‘classification of hazardous areas’**
- Introduction to this standard
- Scope and use
- Procedure

**Use of an ‘industry code’**
- The institution of gas engineers (IGE/SR/25) ‘hazardous area classification of natural gas installations’
- Scope and use

**BS EN 60079-10-2:2015 (dusts) - british standard ‘classification of areas where combustible dusts are or may be present’**
- Introduction to this standard
- Procedure
- Syndicate exercise using BS EN 60079-10:2

**Equipment for use in hazardous areas**
- New equipment
- Existing installed equipment

**Forum and close**

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*ABB reserve the right to amend the course agenda.

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**How to book**

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