

CompEx Ex01-04



Course Overview

To provide candidates with knowledge and understanding on the terminology and protection concepts for electrical/instrument equipment utilized in explosive atmospheres.

The course covers the IEC Standard 60079 Parts 14 & 17 & ATEX 95 & 137 European Directives, including the preparation, installation, inspection & maintenance of electrical/instrument equipment used in explosive atmospheres. The course utilises both Practical and Theoretical assessments, covering all protection concepts listed in order to validate a candidates core competency to work safely in explosive atmospheres in a series of specific modules listed below:

- EX01 The preparation & installation of Ex 'd', 'n', 'e' and 'p' electrical equipment in explosive atmospheres
- EX02 The inspection and maintenance of Ex 'd', 'n', 'e' and 'p' electrical equipment in explosive atmospheres
- EX03 The preparation & installation of Ex 'i' equipment and systems in explosive atmospheres
- EX04 The inspection and maintenance of Ex 'i' equipment and systems in explosive atmospheres

Intended Audience

An E/I background and a working knowledge of electrical installation and inspection.

Duration

5 days

Topics

- Overview of Area Classifications Zone 0,1 and 2
- Gas groups and temperature classes
- Protection concepts, Exd, Exe, ExN, Exn, Exia & Exib, Exp Exo, Exq and EXm
- Selection of apparatus, cabling, gland and termination requirement
- Inspection of equipment and systems to IEC 60079-17 Standards
- Brief overview of the NEC 500/505* (important for North American areas although this is not a requirement for CompEx criteria) and ATEX Directives

Methods

Students will learn through lectures, demonstrations, hands-on learning, practical exercises and discussions. They will be evaluated via attendance, self-assessment, continuous assessment, a theory exam, and a series of practical assessment tests.

Certification

- Successful course delegates will receive a JTLimited CompEx Certificate of Core Competence valid for 5 years.



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15330 Park Row, Houston, TX 77084 Phone: 281.579.1066 Fax: 281.579.0084
www.ocsgroup.com * training@ocsgroup.com

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