

## DESIGN ELECTRICAL INSTALLATIONS IN OR ASSOCIATED WITH EXPLOSIVE ATMOSPHERES (Design Engineers)

### Introduction

This course includes a review of the candidates' work and training records in the field.

Based on various parts of the IEC 60079 series.

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## COURSE OVERVIEW

Engineers will be able to select hazardous area compliant equipment and complete hazardous area installation design, including intrinsically safe circuit evaluation and design, maximum dissipating power calculations, electrical protection, dossier development, cable and entry system selection, understanding the operating theory and practical requirements for each protection technique, equipment certification, nomenclature, inspection, auditing and legislative requirements to name a few.

## PREREQUISITES

- Qualification in a technical subject or trade credentials
- 3 years of Ex installation experience
- IECEx 001 must be attained before taking this module



IECEx  
009



## COURSE CONTENTS

- Legal requirements and standards
- Properties of explosive gases and vapors
- Properties of combustible dust
- Hazardous area classification procedures and techniques
- Equipment selection
- Record keeping - verification dossier
- Explosion protection techniques

## COMPETENCE ASSESSMENT

Prior to assessment candidates should be sure to have an understanding of:

- The explosion-protection aspects of designing electrical power, control, and instrumentation systems and installations
- Hazardous area classification noting that the zoning of hazardous areas can be different depending on local and international regulations and rules



### LEARNING TECHNIQUES

In order to provide the highest quality training experience, this course consists of the following instructional elements:

- **Presentation** – The core elements of skill will be presented and demonstrated in a classroom environment.

- **Certification** – On demonstration of competencies required (assessment) candidates will be awarded IECEx competency 009.

*The awarded IECEx certificate of personnel competence is issued by our approved IECEx certification body.*

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## COURSE DETAILS



### Target Audience

Experienced electrical tradesman and engineers working in or associated with explosive atmospheres.



### Location

All EUTEX Training Centers or at the clients facility subject to minimum number of students



### Duration

1.5 days of training and 0.5 day for assessment or online at own pace and 0.5 day for assessment