

## APPLY BASIC PRINCIPLES OF PROTECTION IN EXPLOSIVE ATMOSPHERES (IECEX 001)

### Overview

This unit of competence covers the basic principles of protection in explosive atmospheres of plants and machinery.

Competence in this unit shall be assessed in combination with, or after gaining other competence required by a given industry or enterprise for a plant or machinery operation or installations, maintenance, or service functions.

Based on various parts of IEC 60079 series.

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## COURSE HIGHLIGHTS

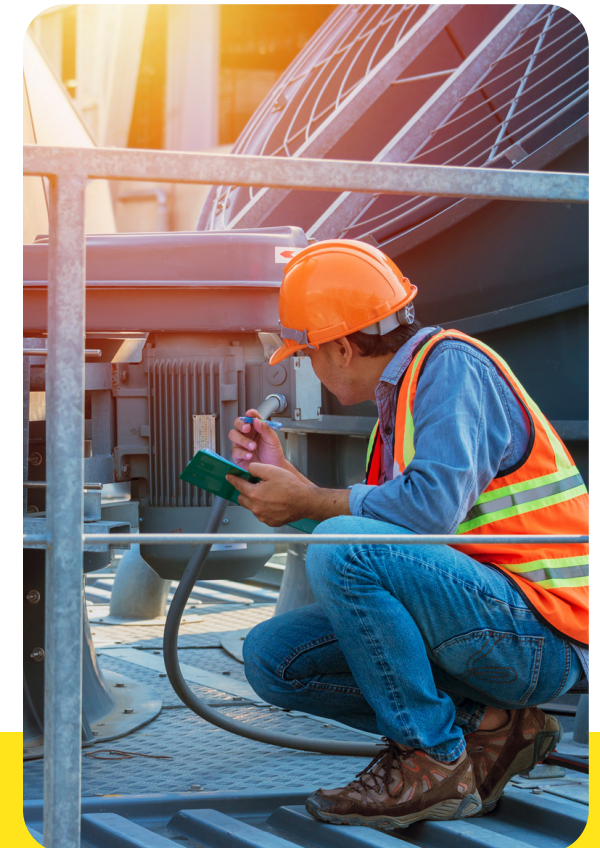
This course will prepare candidates with a strong foundation to understand and maintain safe operations in potentially explosive atmospheres according to **IEC 60079 series**.

\*Course is required before any other IECEX course can be taken.

## PREREQUISITES

- There is no minimum level of technical education applicable for this unit of competence.

AS IEC 001  
IECEX 001



## COURSE CONTENTS

- What are IEC and IECEX
- Regulations
- Minimizing explosions
- Equipment Certification
- Methods of Protection
- Area protection
- Ex Markings
- Compliance

## COMPETENCE ASSESSMENT

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

- Common characteristics of explosion-protection techniques
- General requirements to work in hazardous areas
- How to observe the condition of explosion-protection areas
- How to take actions to limit the risk of an explosion
- Compliance methods
- Ex certification schemes
- Ex principles
- Explosion protection checks
- Flameproof (Ex 'd') explosion-protection technique
- Increased safety (Ex 'e') explosion protection technique
- Type of protection 'n' (Ex 'n')
- Intrinsic safety (Ex 'i') explosion protection techniques



## 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 001.

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

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## COURSE DETAILS



### Target Audience

Basic level  
Basic electrical Ex knowledge



### 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