

Course Number: AH –IEC-100

ATEX/IECEX Fundamentals

Course Overview

This course provides an overview of Ex marking procedures, including a brief presentation on CE mark and the most common directives with particular emphasis on the ATEX directives. The course presents practical knowledge of explosion principles, zoning practices, equipment markings and protection schemes for both gas and dust environments, as well as discussion on the relationship between NEC, IECEx and ATEX

- Explosion principles, gas and dust properties and hazards.
- Standards, certification, and marking
- Zoning requirements and principles
- Ignition Sources
- IECEx Certification Scheme
- Protection concepts, including basic installation and inspection requirements
- General Ex certification schemes
 - The ATEX Directives, Electrical and Non-electrical requirements

Course Objectives

Upon completion of the ATEX/IECEX Fundamentals course, the student will have:

- Basic understanding of the Ex schemes
- Basic understanding of preventing explosions
- Basic understanding of Ex area classification
- General understanding of how each method of protection works

Learning Techniques:

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

- **Instructor led presentation** – The core elements of skill will be presented and demonstrated in a classroom environment.
- **Discussion** – group discussion to be led by skilled professionals.

Course Details

Course number: AH-IEC-100

Pre-requisites: None

Target audience: Any personnel new to EX, ATEX, or IECEx

Certification issued: Certificate of attendance by ATEC

Location: Houston

Duration: 2 Days, 8am to 4pm