

## Introduction



The aims of the course are to understand the explosion-protection aspects for installing explosion-protected and associated equipment and wiring systems. It requires the ability to match equipment with that specified for a given location, work safely, and to installation Standards and complete the necessary installation documentation. The installation standard is based on IEC 60079-14 and any other relevant standard that may applicable.

Participants will learn necessary knowledge and skill in prepare for installation of equipment and wiring, install the equipment and wiring systems and confirming the installation is completed.

These involved in comply with relevant policies & procedures, verification of documentation, confirmation equipment and the availability of tools for the job. All installations shall as per the applicable standards, certification, procedures or manufacturer's instructions. The need to carry out proper installation and initial inspection will be discussed in great detail.

## Program Designed for:

### Working in explosive environment;

- Trainees
- Technicians
- Supervisor
- Installers
- Engineers
- Managers
- Designers
- Maintenances
- QA/QC Practitioners
- HSSE Practioners



## Prerequisites

Technical Education or equivalent such as College Certificates or Vocational qualifications.

## Expected Learning Outcomes



- Recognize the IECEx Certification requirement
- Understand the requirement the need to comply with safe work procedure guidelines.
- Recognise and identify the different types of certified equipment.
- Recognise the installation requirement of explosion-protected equipment and system.
- Recognize the installation requirement of associated equipment and wiring systems
- Recognise the requirement to carry out initial detail inspection

## Your Instructor

Manggau Galawing



## Course Content



- International IECEx Certification - the way to safety compliance in Hazardous Areas.
- Safe work procedure guidelines for explosive gas atmospheres
- General Principles
- Hazardous area classification
- Apparatus Grouping and Temperature Classification
- Protection classification - GAS
- Flammable dusts: zoning & equipment
- Marking of equipment
- Installation of equipment and system

## Training Methodology

Trainer/Lecturer - Provide presentation, videos, question & answers, discussion, explanation, coaching and mentoring system to ensure effective knowledge & skills transfer.

<b>Theory Session</b>	<b>: 60%</b>
<b>Desk Top Practical Session</b>	<b>: 30%</b>
<b>Pre &amp; Post Assessment</b>	<b>: 10%</b>



## Certifications



- Certificate of Attendance OR if required can go IECEx CoPC Unit 003 assessment by IECEx Certifying Body. (IECEx Assessment billed separately)

## Desk-Top Exercises

- Prepare checklist/inspection list of type of protections Ex „o“, Ex „m“, Ex „px“ Ex „q“
- Cable Glanding practice

## Practical Exercises

Practical exercises involved all necessary preparation of installation, carry out installation and initial inspection.

- Prepare PTW before start of the practical exercises**
- Selecting of right cables and cable glands**
- Installation of equipment/system**
- Initial inspection**
- Prepare Installation**
- Initial Inspection**

## Minimum Pax

6 Pax

