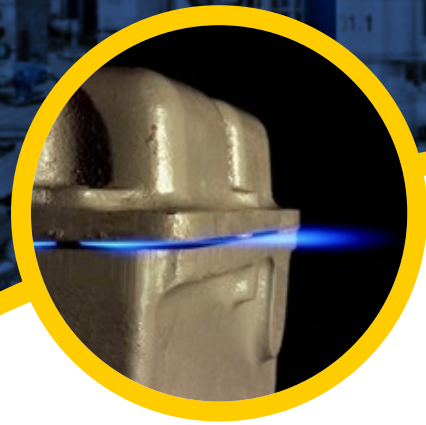


Safe Handling of Electrical Equipment at Hazardous locations (HAC)

Hazardous area classification, selection & maintenance as per IS/IEC 60079



About Hazardous Area Classification:

Hazardous Area Classification (HAC) is the assessed division of a facility where releases of flammable liquids and gases can occur, either intentionally or accidentally, into hazardous areas and non-hazardous areas based on the frequency and duration of explosive gas atmospheres.

The right knowledge is required for prevent ignition sources from an equipment in hazardous areas to avoid catastrophes



2nd July 2021
10:00am - 05:30pm IST



VLT
Microsoft Teams



Key benefits

In this course, delegates will learn how to identify areas where flammable zones can arise and how to subsequently control these ignition sources, a key strategy to any organization's process safety management.



Who should take this course?

Process safety engineers, Corporate safety engineers, Oil & Gas HSE engineers, Electrical engineers, Safety personnel, Process engineers.



Applicable to:

Chemical & processing industries, including bulk and finished pharmaceuticals, bulk and fine chemicals, food, plastics, metals, Oil & Gas, agrochemicals, flavor, dyes and paints Industries.

COURSE OUTLINE

Key area classification concepts

- + Limitations of Hazardous area classification
- + Physical and chemical properties vital for Hazardous area classification
- + Source of releases and various grades of release
- + Various Zones & its importance
- + The relationship between the grades of release, ventilation and the resulting zone
- + The procedures and methodology in carrying out HAC studies
- + Techniques of area classification
- + Impact of external variables to area classification and Zone extent
- + Documentation of the hazardous areas zones

All about Explosion protection equipment

- + Equipment selection for hazardous atmospheres.
- + Explosion-protection principles, including: Ex d, Ex e and Ex l
- + Explosion protection installation requirements
- + System & inspection procedures required to ensure Integrity of Ex equipment



Delegate fee: INR 6900/- plus 18% GST.

Participation e-certificate and softcopy of participant material will be provided to all

Last date for registration with fee payment: 29th June 2021





ELECTRICAL FIRE RISK MANAGEMENT TRAINING

Safety by Design and Electrical Fire Investigation Techniques



25th June 2021
10:00am – 05:30pm IST



VLT
Microsoft Teams

Electricity is an integral part of the modern world, and sometimes it is easy to forget just how dangerous it can be. The NCRB reports reveals that Fire accidents due to just Electrical Short Circuits itself accounts for 6%-13% of the total Fire accidents. In most states in India the property lost due to fire & electrical accidents are worth anywhere from 25 - 50 crores each year. Electrical installations often fail or malfunction because of inappropriate practices and a poor knowledge of safety and risk mitigation measures, and therefore fire and electrical hazards continues to be one of the foremost causes for massive loses and fatalities every year. With electricity becoming an indispensable part of our life managing it is inevitable.

COURSE OUTLINE

- Plant design & layout requirements with respect to electrical fire.
- Focus on oil filled equipment and required fire protection measures.
- **Cable fires**
Underground cable trenches
Cable cellar/gallery
Fire spread through Overhead cable trays(horizontal and vertical trays)
Cable shaft and risers
Vulnerability of Cable joints
- **Emerging Technology:** the connected approach to fire detection and suppression systems
- Lightning strikes can spark disaster
The science behind it and how it can be prevented
- Analysis of fire risk associated with photo voltaic power (solar panels)
- Electrical aspects of fire investigation – case study discussions
Inspection requirement to prevent battery fire



Who should attend:

HSE and Safety Professionals, Electrical/
Maintenance/ Operations Engineers,
Risk Assessors / Insurance Surveyors.



Applicable to:

All industries, Commercial establishments, Hospitals.



Delegate fee: INR 4999/- plus 18% GST.

Participation e-certificate and softcopy of participant material will be provided to all

Last date for registration with fee payment : 23rd June 2021

