



## Perfecting Process Safety

03 - 07 Jun 2024  
Lisbon (Portugal)



# Perfecting Process Safety

**Ref.:** 15076\_295744 **Date:** 03 - 07 Jun 2024 **Location:** Lisbon (Portugal) **Fees:** 4900 **Euro**

## Introduction:

To meet the increasing expectations of governments and the public Process Safety has been legislated for with increasingly stringent standards. Unfortunately, incidents keep occurring for multi-fold reasons which may well be production pressures and cost-cutting measures such as staffing and training. Control rests ultimately with Managers and Engineers of the Process Plants as they are the on-site decision-makers and must be competent not only in their field but also in proactive safety. Training and retraining are part of the competency cycle. This course aims at highlighting an important aspect of Process Safety to increase competencies in safety and operational efficiency.

## Targeted Groups:

- Process Managers
- Process Engineers
- Team Leaders
- Maintenance Engineers
- Health and Safety personnel

## Course Objectives:

At the end of this course the participants will be able to:

- Explain the foundations of process safety
- Describe the systems to prevent loss of containment
- Analyze common risks and controls in the process safety industry
- Understand Furnace operations
- Appreciate Start-Up and Shutdown Hazards
- Summarise safe entry procedures in confined spaces
- Create Emergency response strategies

## Targeted Competencies:

- Process safety
- Systems to prevent loss of containment
- Common hazards, risks and controls in the oil & gas industry
- Furnace operations
- Emergency Response

## Course Content:

### Unit 1: The Foundations of Process Safety:

- Introduction
- Learning from Accidents
- Good Practice Standards for the Process Industry EU and USA

- Permit-to-work System
- Shift Handover the Key Principles
- Case Study

## **Unit 2: Risk Management and Management of Change:**

- Risk Management
- The Swiss Cheese Model
- HAZOP Studies
- Inherent Safer Design
- Management of Change
- Case Study

## **Unit 3: Combustion and Confined Space Entry:**

- Furnace Operations
- Firing Conditions
- Confined Space Entry
- Cleaning, Isolating, and Atmospheric Testing
- Training
- Case Study

## **Unit 4: Start-Up, Shutdown, Hydrocarbon Storage & Types of Fire & Explosions:**

- Start-Up & Shutdown
- Storage Depots - Bund Areas
- Safety Instrumented Systems
- Types of Fire & Explosions - VCE, UVCE, BLEVE, Boil Over
- Case Study

## **Unit 5: Fire and Emergency Response:**

- Passive and Active Fire Protection
- Case Study
- Emergency Response
- Review & Evaluation



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### Registration form on the : Perfecting Process Safety

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