



HSE232

Process Safety Management

Course Introduction:

This course provides an in-depth study of each PSM element. This course introduces each PSM element and the specific guidelines for integrating PSM element requirements into other corporate programs and evaluating program compliance throughout the implementation phase. It will cover how to expand your PSM program to include the RBPS (risk-based process safety) elements as proposed by the CCPS (Center for Chemical Process Safety).

Course Objectives:

Upon successful completion of this course, the delegates will be able to:

- Provide high-level awareness on the basic concepts & essential requirements for implementation of Risk-Based Process Safety Management
- Differentiate between Personal & Process Safety & understand significance of Process Safety.
- Understand requirements of essential elements of OSHA / DuPont / AIChE-CCPS / API PSM Standards & Operational Excellence
- Guide in developing PSM Policy & Procedures
- Assist in implementing & monitoring an effective & sustainable RB-PSM program

Who Should Attend?

This course is intended for Managers, Supervisors in Operations, Maintenance, Engineering, Process & HSE functions, Personnel involved in or responsible for implementing & monitoring of PSM.

Course Outline:

Pre-Test

- **Introduction to PSM and its origins and goals**
- **Overview of PSM standards and regulations worldwide, definitions, compliance interpretations**
- **COMMIT TO PROCESS SAFETY**
 - Process Safety Culture
 - Compliance with Standards

- Process Safety Competency
- Workforce Involvement
- Stakeholder Outreach

➤ **UNDERSTAND HAZARDS AND RISK**

- Process knowledge Management
- Hazard Identification and Risk Analysis

➤ **MANAGE RISK**

- Operating Procedures & Safe Operation of a Process Plant
- Safe Work Practices
- Asset Integrity and Reliability
- Contractor Management
- Training and Performance Assurance
- Management of Change
- Operational Readiness
- Conduct of Operations
- Emergency Management

➤ **LEARN FROM EXPERIENCE**

- Incident Investigation including lessons learnt from past major accidents
- Measurement and Metrics
- Auditing & Process Safety Performance Indicators
- Management Review and Continuous Improvement
- Developing PSM programs, implementation planning
- Summary of roles and responsibilities

Summary/Conclusion

Post Test

Course Certificate:

International Center for Training & Development (ICTD) will award an internationally recognized certificate(s) for each delegate on completion of training.

Course Methodology:

A variety of methodologies will be used during the course that includes:

- (30%) Based on Case Studies
- (30%) Techniques
- (30%) Role Play
- (10%) Concepts
- Pre-test and Post-test
- Variety of Learning Methods
- Lectures
- Case Studies and Self Questionnaires
- Group Work
- Discussion
- Presentation

Course Fees:

To be advised as per the course location. This rate includes participant's manual, Hand-outs, buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Course Timings:

Daily Course Timings:

08:00 - 08:20	Morning Coffee/Tea
08:20 - 10:00	First Session
10:00 - 10:20	Recess (Coffee/Tea/Snacks)
10:20 - 12:20	Second Session
12:20 - 13:30	Recess (Coffee/Tea/Snacks)
13:30 - 15:00	Last Session