TECHNICAL
EDUCATION
ACADEMY

Operational Risk Management Center

COURSE PROGRAMME

000626

HSSE085 - Process Safety Management (PSM) Overview

This course will provide an in-depth study of each PSM element.



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Course overview

Foundation level

Why take this course

This course will provide an in-depth study of each PSM element. The course introduces each PSM element and the specific guidelines for integrating PSM element requirements into other company programs and evaluating program compliance throughout the implementation phase. This course also covers how to expand our PSM program to include the RBPS (risk-based process safety) elements as proposed by the CCPS (Center for Chemical Process Safety), a division of AIChE (American Institute of Chemical Engineers). Our course is unique in its in-depth coverage of human factors issues missing from 90% of the implemented PSM programs in the world (and missing from the text of the US OSHA PSM regulation).

Recommended prerequisites: None. However, this course is recommended before attending course PSM Auditing. The Risk-Based Process Safety (RBPS) guide (2007) from CCPS/AIChE will be reviewed as well to see an alternative approach to implementing process safety.

Who it is for and how it helps

Managers – Operations, Safety and Executive, Engineers – Process, Safety and Mechanical, Compliance Auditors, Environmental Management and Technicians.

What you will learn

- To interpret the performance-based requirements of the PSM and EPA risk management standards, as well as learn about related industry standards
- Learn about the elements of process safety that are missing from typical PSM systems, including Human Factors elements (communication, human system interface, work environment, staffing, and fitness for duty), Facility Siting element, Project Risk Management, Senior Leadership & Accountability
- Be able to apply multiple options for implementing an effective need-specific program
- Learn about specific guidelines for developing cost effective written programs tailored for each PSM element, whether for a single facility or a corporation
- Know how to avoid costly implementation mistakes by effectively addressing human factors in each element
- Apply the terminology for communicating PSM requirements to others throughout the organization
- Learn how to develop written programs to meet PSM requirements
- Learn how to incorporate and integrate the PSM element requirements into other corporate programs (other corporate management systems)
- Learn about key performance indicators
- Learn how to evaluate program compliance throughout implementation
- Learn how to begin implementation in your company

Curriculum

Modules 01–04

01 Introduction to PSM

- Overview of PSM standards
- PSM regulations world-wide
- Definitions
- Compliance interpretations

02 Elements of PSM

- Human error basics
- Elements missing from most PSM systems, including specific human factor aspects, management commitment & accountability, and project risk management
- Employee participation
- Trade secrets
- Process safety information
- Operating procedures
- Hot work permit/safe work
- Training
- Contractors
- Process hazard analysis
- Management of change
- Mechanical integrity
- Pre-startup safety review
- Emergency planning and response
- Incident investigation
- Compliance auditing

03 Key Performance Indicators

- Leading Indicators
- Tracking

04 Other issues to review

- Summary of roles and responsibilities

Curriculum

Module 04 — continued

- Developing PSM programs
- Implementation planning

Joining the programme

Contact the Academy and quote course code 000626 to confirm dates, delivery format, prices and enrolment terms.

Training for your team

Tell us your business goals, the roles and number of participants, and your preferred dates and location. This will help us discuss the right training option.

Preparing for the programme

The published programme does not specify any prerequisites. Contact us before enrolling to confirm how to prepare.

Discuss your training needs

mail@tecedu.org
www.tecedu.academy

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