



Process Safety Management Compliance Training Course

22 – 26 March 2027
Brussels (Belgium)



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Introduction

Most process organizations have implemented an integrated approach to managing health, safety, and environmental risks HSE through a robust HSE management system. This process safety management training course aims to underscore the advantages of such a system, examining its key components as they align with industry best practices.

Thoroughly exploring process safety management standards and requirements, the process safety management compliance program is meticulously structured to assist delegates in evidencing adherence to the organization's HSE management system, emphasizing risk management and cultivating a proactive safety culture.

What Is Process Safety Management?

This process safety management compliance course will delve into the definition of process safety management and answer fundamental questions like what process safety management is.

What is the purpose of a process safety management course? This process safety management compliance course establishes a foundational understanding for participants. It will treat the crucial role of PSM in mitigating risks associated with complex processes within the industry.

Targeted Groups

- Individuals tasked with implementing or maintaining an effective PSM program.
- Professionals are leading compliance auditing and process safety management guidelines for compliance.
- Stakeholders with interactions involving industry regulators.

Course Objectives

Participants will complete this process safety management compliance course with the ability to:

- Describe the components of the company's HSE management systems.
- Demonstrate compliance with elements, sub-elements, and expectations of the HSE- MS.
- Comprehend the role of risk management in risk assessment and incident investigation and analysis.
- Acknowledge the impact of human error on risk assessment and incident causation.
- Identify systemic weaknesses within the HSE-MS by conducting thorough root-cause analyses of incidents.
- Understand the requirements of pertinent standards such as HSG65, BS 8800, OHSAS 18000, ISO 9000, and ISO 14000.
- Outline action plans, establish targets, and benchmark performance.
- Recognize the significance of promoting a positive safety culture within the organization.

Targeted Competencies

At the end of this process safety management compliance course, the target participants will be able to:

- Understanding of the role and responsibilities within the HSE management system.
- Mastery of elements, sub-elements, and expectations of the HSE- MS.
- Proficiency in practical risk assessment and incident investigation and analysis.
- The agency fosters a positive safety culture.

Course Content

Unit 1: Introduction to HSE Management Systems

- Necessity and overview of the HSE management system.
- Defining individual and organizational roles and responsibilities.
- Scope of the HSE management system.
- Safety process management and associated standards.
- Harmonizing OHSAS 18000, ISO 14000, and ISO 9000.
- The importance of a strong safety culture.

Unit 2: Elements of HSE Management Systems

- Differentiating types of HSE management systems.
- The framework of HSE - management systems elements and expectations.
- Leadership and commitment to process safety compliance.
- Formulating HSE Policy and Strategic Objectives.
- Assignment of organization, resources, and competence.
- Techniques for comprehensive risk evaluation and management.
- Development of planning, standards, and operational procedures.
- Execution of implementation and vigilant monitoring.
- Conducting rigorous audits and management reviews for safety compliance standards.

Unit 3: Risk Management - 1 Risk Assessment

- Understanding hazard, risk, and the necessity of risk assessment.
- Techniques for identifying hazards.
- Methods for evaluating HSE risks.
- Deployment of risk assessment strategies.
- Appraisal of work equipment and workplace risks.
- Execution of task-specific risk assessments.
- Assessments focused on occupational health risks.

Unit 4: Risk Management - 2 Incident Investigation

- Learning organizationally from past incidents.
- Case study analysis includes the BP Texas Refinery explosion and fire.
- Scrutinizing the human elements in incident causation.
- Exploring the concepts of active errors, preconditions, and latent failures.
- Root-cause identification and analysis methods.
- Outlining a structured approach for incident investigation and analysis.

Unit 5: Promoting a Positive Safety Culture

- Strategies for motivating staff and encouraging employee involvement.
- Process safety management training aimed at culture development.
- Definitions and significance of safety culture.
- Innovative approaches to nurturing a safety culture.
- Assessment and measurement of safety culture effectiveness.
- Tapping into Behavioral Safety and enhancing employee engagement.
- Selecting precise outcome indicators to gauge success.