



Oil, Gas and Chemical

## Process Safety Culture in Chemical Plants

## Course Introduction

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The Process Safety Culture in Chemical Plants training program is designed to equip professionals with the knowledge and skills necessary to build and sustain a robust safety culture. Over five days, participants will delve into foundational concepts of process safety culture, leadership roles, and employee engagement techniques essential for fostering a positive safety environment. The course covers advanced topics such as hazard identification, risk management, operational discipline, and incident investigation, ensuring that attendees can effectively manage and mitigate risks. Additionally, the program emphasizes the importance of continuous improvement, training and competency development, and leveraging innovative technologies to enhance safety practices.

## Target Audience

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This course is intended for safety managers, engineers, supervisors, and other professionals responsible for process safety and operational integrity in chemical plants.

## Learning Objectives

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- participants will be prepared to cultivate a proactive safety culture that prioritizes process safety and drives operational excellence in chemical plants.
- Learn the key elements and importance of establishing a strong process safety culture in chemical plants.
- Explore the role of leadership and techniques for fostering employee involvement and ownership in safety practices.
- Gain skills in identifying hazards, conducting risk assessments, and integrating risk management into daily operations.
- Understand how to develop and measure the effectiveness of process safety training programs and ensure continuous skill development.

- Learn to establish a culture of continuous improvement, use metrics to measure safety performance, and adopt emerging technologies to enhance safety.

## Course Outline

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### • 01 Day One

#### **Introduction to Process Safety Culture**

- Understanding Process Safety Culture
- Definition and importance of process safety culture
- Key elements of a strong safety culture
- Benefits of a positive safety culture in chemical plants
- Historical Perspectives and Case Studies
- Review of major chemical plant incidents
- Lessons learned from past incidents
- Impact of safety culture on incident outcomes
- Regulatory and Industry Standards
- Overview of relevant regulations and standards (OSHA, EPA, CCPS)
- Role of industry best practices
- Compliance requirements and continuous improvement

### • 02 Day Two

#### **Building and Sustaining Safety Culture**

- Leadership and Commitment
- Role of leadership in fostering safety culture
- Commitment from top management
- Leading by example and setting the tone
- Employee Engagement and Ownership
- Importance of involving employees in safety initiatives
- Techniques for encouraging employee participation
- Creating a sense of ownership and accountability
- Communication and Reporting

- Effective communication strategies for safety
- Encouraging open reporting of safety issues
- Tools for facilitating communication and feedback

### • 03 Day Three

#### **Risk Management and Safety Practices**

- Hazard Identification and Risk Assessment
- Techniques for identifying hazards (HAZID, HAZOP)
- Conducting risk assessments and prioritizing risks
- Integrating risk management into daily operations
- Operational Discipline and Safety Practices
- Importance of operational discipline
- Standard operating procedures (SOPs) and adherence
- Best practices for maintaining safety in operations
- Incident Investigation and Learning
- Conducting thorough incident investigations
- Root cause analysis techniques
- Implementing corrective actions and sharing lessons learned

### • 04 Day Four

#### **Training and Competency Development**

- Process Safety Training Programs
- Developing effective safety training programs
- Identifying training needs and objectives
- Measuring training effectiveness and outcomes
- Competency Management
- Ensuring competency of employees and contractors
- Continuous skill development and certification
- Role of mentoring and coaching in building competencies
- Behavior-Based Safety (BBS)
- Principles of behavior-based safety
- Implementing BBS programs
- Monitoring and reinforcing safe behaviors

### • 05 Day Five

#### **Continuous Improvement and Future Trends**

- Continuous Improvement in Safety Culture
- Establishing a culture of continuous improvement
- Using metrics and KPIs to measure safety performance
- Implementing safety audits and reviews
- Technology and Innovation in Process Safety
- Emerging technologies in process safety management
- Role of digital tools and data analytics
- Innovations driving safety improvements
- Future Trends and Challenges
- Anticipating future challenges in process safety
- Adapting to changing regulations and industry standards
- Preparing for the future of process safety culture

## Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
April 21, 2025	April 25, 2025	5 days	4250.00 \$	UAE - Abu Dhabi
Sept. 21, 2025	Sept. 25, 2025	5 days	4250.00 \$	KSA - El Dammam
Dec. 29, 2025	Jan. 2, 2026	5 days	5950.00 \$	USA - Los Angeles
Jan. 6, 2025	Jan. 10, 2025	5 days	4250.00 \$	UAE - Dubai
Dec. 30, 2024	Jan. 3, 2025	5 days	4250.00 \$	UAE - Dubai