

# Safety Management Systems

Training Instructors

Mr. Hussain Imam Bukhari | Mr. Asad Aleem Khan



**Fateh**  
Trainings & Consultancy



BUILDING COMPETENCE, INSPIRING CONFIDENCE

# Overview

This course provides participants with an in-depth understanding of Safety Management Systems (SMS) within the framework of Process Safety Management (PSM). It focuses on the integration of risk-based approaches, regulatory compliance, and safety leadership practices that align with OSHA 1910.119, ISO 45001, and ISO 31000 standards.

## Course Objective

To enable professionals to design, implement, and continuously improve effective Safety Management Systems in high-risk industrial environments. Participants will learn to identify, evaluate, and control process safety risks while fostering a proactive safety culture.

## Why us?

We deliver industry-focused training that empowers professionals and organizations to achieve operational excellence. Each program is customized to client needs, ensuring practical relevance and measurable results.

Our expert trainers bring real-world insights, industrial case studies, sharing their experiences and best practices to every session. We create engaging, actionable learning experiences that bridge the gap between theory and practice.

# Who should Participate?

- Engineers, supervisors, and HSE professionals in process industries.
- Line managers responsible for safety and compliance.
- Risk, operations, and maintenance personnel engaged in PSM systems.



# Course Outline

## **Topic 1: Introduction to Safety Management Systems (SMS)**

Fundamentals of SMS, its integration with PSM, and risk-based approaches under global standards (OSHA 1910.119, ISO 45001, ISO 31000).

## **Topic 2: Risk Identification and Hazard Analysis**

Techniques for hazard identification, Process Safety Information (PSI) requirements, and the role of human factors in safety performance.

## **Topic 3: Risk Assessment and Evaluation**

Application of qualitative and quantitative assessment tools (PHA, HAZOP, LOPA), ALARP principles, and PSM integration.

## **Topic 4: Risk Control and Mitigation Strategies**

Implementing the hierarchy of controls, mechanical integrity, management of change (MOC), and contractor safety management.

# Course Outline

## **Topic 5: Incident Investigation and Emergency Response**

PSM-compliant incident investigation, root cause analysis, and emergency response planning and coordination.

## **Topic 6: Monitoring, Auditing, and Continuous Improvement**

Measuring SMS performance using KPIs, conducting compliance audits, and leveraging analytics for predictive risk management.

## **Topic 7: Implementation and Integration of SMS**

Developing and embedding SMS frameworks, integrating with ISO systems, and applying lessons from industry case studies.

# Trainers



**Mr. Hussain Imam Bukhari**  
**Lead Trainer / Consultant**

Hussain Imam Bukhari is a chemical engineer with over 43 years of experience in the petrochemical and fertilizer industries, specializing in project development and management of large-scale fertilizer complexes. He achieved high capacity utilization of 130% and 120% for ammonia and urea plants at FERTIL 1, respectively. Bukhari played a pivotal role in the \$1.3 billion FERTIL 2 project in Ruwais, Abu Dhabi, overseeing feasibility studies, preparation of TOR's, ITB and Technical Bids evaluation for a 2000 MTPD ammonia and 3500 MTPD urea complex operational since 2013. He also led a \$180 million debottlenecking project that increased urea production capacity from 1500 MTPD to 2550 MTPD.

His career includes key roles as General Manager at Fatima Fertilizer Company, as Commissioning Advisor at OQ's Salah Methanol Company and as an External Advisor with McKinsey Pakistan. Bukhari is skilled in strategic planning and negotiation, with experience in preparing reports for corporate boards. He has collaborated with leading organisations like KBR, Haldor Topsoe, Urea CASALE and holds a Chemical Engineering Degree from Punjab University, Lahore (1975). He is affiliated with the Pakistan Engineering Council.



**Mr. Asad Aleem Khan**  
**Senior Trainer / Consultant**

Mr. Asad Aleem is a seasoned HSE leader with 30 years of service at Engro, spanning Marketing, Logistics, and HSE. He drove safety excellence by leading initiatives that earned the company its first-ever Dupont Rating 4 and won two Marketing Excellence Awards. His landmark achievement—the Defensive Driving & Riding Program—significantly reduced fleet accidents and was later adopted by other organizations. He also developed a community safety awareness program recognized by the company's board. Holding an EMBA from LUMS and an MSc in Physics from the University of Karachi, Mr. Aleem combines technical expertise, regulatory insight, and strong leadership to create safer and more efficient workplaces.



## Duration

**2 days**

## Location

**At Client's Site or Lahore**

## Training Instructors

**Mr. Hussain Imam Bukhari | Mr. Asad Aleem Khan**

Get in Touch

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