

OPERATIONAL EXCELLENCE AND LESSONS FROM PROCESS INDUSTRY INCIDENTS

"Learning from Past Incidents to Build Safer, More Reliable, and High-Performing Operations"

Schedule

Date	Venue	Fees (Online)
18 - 19 May 2026	Online	USD 700 per delegate

► **Available delivery methods:** Face-to-Face & Online Training

Introduction

Operational excellence in the process industries is closely linked to safety performance, reliability, and effective risk management. Many major industrial accidents have highlighted the importance of learning from failures to prevent future incidents and improve organizational resilience.

This intensive 2-day online training focuses on real-life process industry incidents and the critical lessons learned from them. Participants will explore root causes, human and organizational factors, and system failures while gaining practical insights into strengthening safety culture, risk controls, and operational excellence.

Objectives

By the end of this course, participants will be able to:

- Understand the principles of operational excellence in process industries
- Analyze major process industry incidents and their root causes
- Identify human, technical, and organizational failures leading to incidents
- Apply lessons learned to improve safety, reliability, and performance
- Strengthen process safety management and risk controls
- Enhance safety culture and leadership accountability
- Reduce the likelihood of accidents through proactive operational practices

Why Attend

- Learn from real-world process industry accidents and near misses
- Understand how failures occur despite existing systems and procedures
- Improve safety performance and operational reliability
- Strengthen risk management and process safety practices
- Enhance leadership awareness and decision-making in high-risk operations
- Apply practical lessons to prevent costly incidents and disruptions

Target Audience

This program is designed for:

- HSE professionals and safety managers
- Operations, maintenance, and reliability engineers
- Process engineers and plant managers
- Supervisors and team leaders in high-risk industries
- Professionals involved in operational risk, safety, and incident management

Individual Benefits

Key competencies that will be developed include:

- Ability to analyze incidents and identify root causes
- Understanding of process safety management principles
- Skills to recognize early warning signs of operational failure
- Enhanced risk awareness and safety leadership mindset
- Improved decision-making in complex operational environments
- Knowledge of best practices for preventing major accidents

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Improved safety culture and operational discipline
- Reduced likelihood of major incidents and near misses
- Stronger process safety and risk management systems
- Better integration of lessons learned into operational practices
- Enhanced reliability, efficiency, and compliance
- Increased organizational resilience and operational excellence

Instructional Methodology

The course follows an interactive online learning approach combining theory with practical insights:

- Strategy Briefings – Concepts of operational excellence and process safety
- Case Studies – Analysis of major process industry incidents and failures
- Workshops – Incident analysis, root cause identification, and lessons learned
- Peer Exchange – Interactive discussions on industry challenges and experiences
- Tools – Incident investigation frameworks, checklists, and best-practice models

Course Outline

Detailed 2-Day Course Outline

Training Hours: 7:30 AM – 3:30 PM Daily Format: 3–4 Learning Modules | Virtual Breaks: 09:30 & 11:15 | Lunch Break: 01:00 – 02:00

Day 1: Understanding Operational Excellence and Major Incidents

- Principles of operational excellence in process industries
- Overview of major industrial accidents and their impacts
- Human, technical, and organizational factors in incidents
- Workshop: Incident case study analysis and lessons learned

Day 2: Applying Lessons Learned to Prevent Future Incidents

- Root cause analysis and systemic failure identification
- Strengthening process safety management systems
- Leadership, safety culture, and operational discipline
- Workshop: Developing action plans for operational excellence
- Integrating lessons learned into daily operations

Certification

Participants will receive a Certificate of Completion in Operational Excellence and Lessons from Process Industry Incidents, validating their understanding of process safety, incident analysis, and best practices for achieving safe and reliable operations.

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