

PROCESS SAFETY & ASSET INTEGRITY MANAGEMENT

“Master process safety and asset integrity to ensure safe, reliable, and efficient operations”

Schedule

Date	Venue	Fees (Face-to-Face)
06 - 10 Dec 2026	Doha, Qatar	USD 3495 per delegate

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

Introduction

Process safety and asset integrity are critical components for preventing accidents, minimizing operational risks, and ensuring business continuity. This 5-day face-to-face training provides participants with comprehensive knowledge and hands-on experience in implementing process safety and asset integrity management systems across industrial operations.

The program combines theoretical instruction with practical exercises, workshops, and case studies. Participants will learn to identify hazards, assess risks, develop safety strategies, and maintain asset integrity to enhance operational reliability, efficiency, and regulatory compliance.

Objectives

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

- Understand the fundamentals of process safety management (PSM) and asset integrity.
- Identify hazards and conduct risk assessments in industrial operations.
- Implement and monitor asset integrity programs.
- Apply industry best practices to prevent incidents and ensure operational safety.
- Develop strategies for continuous improvement in process safety and reliability.

Why Attend

- Gain practical knowledge in process safety and asset integrity management.
- Learn techniques to prevent accidents, mitigate risks, and improve reliability.
- Enhance organizational compliance with safety standards and regulations.
- Network with professionals in maintenance, operations, and safety management.
- Improve professional expertise in asset integrity, risk assessment, and PSM implementation.

Target Audience

This program is designed for:

- Process safety and reliability engineers.
- Maintenance and operations managers.
- Asset integrity professionals and safety officers.
- Risk and compliance managers in industrial operations.
- Engineers and technical staff responsible for asset safety and operational continuity.

Individual Benefits

Key competencies that will be developed include:

- Mastery of process safety and asset integrity management principles.
- Skills in hazard identification, risk assessment, and mitigation.
- Ability to develop and implement safety and integrity programs.
- Enhanced decision-making to ensure operational safety and reliability.

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Improved operational safety and reliability.
- Reduced risk of process incidents and asset failures.
- Enhanced compliance with industrial safety and regulatory standards.
- Optimized asset management and maintenance strategies.

Instructional Methodology

The course follows a blended learning approach combining theory with practice:

- Strategy Briefings – Principles of process safety, risk management, and asset integrity.
- Case Studies – Real-world examples of process incidents and integrity challenges.
- Workshops – Hands-on exercises in hazard identification, risk assessment, and program implementation.
- Peer Exchange – Group discussions on lessons learned and best practices.
- Tools – Templates, checklists, and frameworks for process safety and asset integrity management.

Course Outline

Detailed 5-Day Course Outline

Training Hours: 9:00 AM – 5:00 PM Daily Format: 3–4 Learning Modules | Coffee Breaks & Lunch included

Day 1: Introduction to Process Safety & Asset Integrity (09:00 – 04:00)

Module 1: Fundamentals of Process Safety (09:00 – 11:00)

- Principles of process safety and its importance in industrial operations.

Module 2: Asset Integrity Overview (11:15 – 01:00)

- Lifecycle management, standards, and frameworks.

Module 3: Hazard Identification Techniques (02:00 – 04:00)

- Methods to identify potential process and equipment hazards.

Day 2: Risk Assessment and Safety Management (09:00 – 04:00)

Module 4: Risk Assessment Techniques (09:00 – 11:00)

- Conducting qualitative and quantitative risk assessments.

Module 5: Safety Management Systems (11:15 – 01:00)

- Implementation and monitoring of process safety programs.

Module 6: Workshops and Case Studies (02:00 – 04:00)

- Practical exercises in hazard analysis and risk mitigation.

Day 3: Asset Integrity Management (09:00 – 04:00)

Module 7: Asset Performance and Reliability (09:00 – 11:00)

- Maintenance strategies, inspection, and monitoring techniques.

Module 8: Failure Analysis and Mitigation (11:15 – 01:00)

- Identifying root causes and implementing corrective actions.

Module 9: Case Studies and Practical Exercises (02:00 – 04:00)

- Lessons learned from industry incidents.

Day 4: Advanced Process Safety Practices (09:00 – 04:00)

Module 10: Safety Culture and Human Factors (09:00 – 11:00)

- Promoting safety awareness and mitigating human errors.

Module 11: Regulatory Compliance and Standards (11:15 – 01:00)

- Overview of industry standards and compliance requirements.

Module 12: Workshops and Peer Exchange (02:00 – 04:00)

- Group discussions and exercises in safety and integrity management.

Day 5: Implementation, Review, and Action Planning (09:00 – 04:00)

Module 13: Developing Safety and Integrity Programs (09:00 – 11:00)

- Practical implementation strategies and monitoring.

Module 14: Review and Exam Prep (11:15 – 01:00)

- Recap of key concepts and lessons learned.

Module 15: Action Planning and Q&A (02:00 – 04:00)

- Developing actionable plans and addressing participant queries.

Certification

Participants will receive a Certificate of Completion in Process Safety & Asset Integrity Management, validating their expertise in implementing process safety practices, managing asset integrity, and ensuring operational reliability and safety.

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