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Course Name

Process Hazard and Risk Analysis

Sector Name

Health, Safety and Environment

Sector Name

Quality Management & Operational Excellence

Document Type

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Process Hazard and Risk Analysis

Course Introduction

The **Process Hazard and Risk Analysis** course provides a comprehensive understanding of the principles and techniques used to identify and assess process hazards and risks in industrial settings. Delivered by **BOOST**, this course focuses on the identification of potential hazards, risk evaluation, and the implementation of control measures to ensure the safety and reliability of industrial processes.

Throughout this course, participants will explore various hazard and risk analysis methodologies, including HAZOP (Hazard and Operability Study), FMEA (Failure Modes and Effects Analysis), and Fault Tree Analysis. The course emphasizes a practical, hands-on approach to conducting hazard analyses and understanding the role of risk assessment in process safety management.

By the end of the course, participants will be equipped with the knowledge and skills necessary to identify, assess, and mitigate process risks, ensuring a safe and compliant work environment.

Process Hazard and Risk Analysis

Target Audience

- ✓ Process safety managers and engineers
- ✓ Risk management professionals
- ✓ Health and safety officers
- ✓ Engineers involved in hazard analysis and risk assessment
- ✓ Safety coordinators and compliance officers in industries such as oil & gas, chemical, and manufacturing

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Process Hazard and Risk Analysis

Learning Objectives

- ✓ Understand the key concepts of process hazards and risk analysis.
- ✓ Apply different hazard identification and risk assessment techniques.
- ✓ Conduct process hazard analyses such as HAZOP, FMEA, and Fault Tree Analysis.
- ✓ Assess the risk associated with different processes and identify potential safety improvements.
- ✓ Understand and apply risk management strategies to mitigate potential hazards.
- ✓ Comply with relevant safety standards and regulations in process hazard analysis.
- ✓ Develop effective action plans based on the results of hazard and risk assessments.

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Process Hazard and Risk Analysis

Course Outline

✓ **01 DAY ONE**

Introduction to Process Hazard and Risk Analysis

- ✓ Overview of process hazard and risk analysis
- ✓ Understanding the importance of hazard identification and risk assessment in process safety
- ✓ Key concepts: Hazard, risk, and safety in industrial processes
- ✓ Regulatory standards and industry guidelines for process hazard analysis (PHA)
- ✓ Introduction to common hazard analysis methods: HAZOP, FMEA, Fault Tree Analysis

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Course Outline

✓ 02 DAY TWO

HAZOP (Hazard and Operability Study) Methodology

- ✓ In-depth understanding of the HAZOP methodology
- ✓ Steps involved in conducting a HAZOP analysis
- ✓ Identifying process deviations and potential hazards using HAZOP
- ✓ Risk evaluation and determining the severity of consequences
- ✓ Documenting findings and developing corrective actions

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Course Outline

✓ 03 DAY THREE

Failure Modes and Effects Analysis (FMEA)

- ✓ Introduction to FMEA: Purpose and application
- ✓ Identifying potential failure modes and their effects on system performance
- ✓ Risk priority number (RPN) calculation and prioritization of failure modes
- ✓ Determining the likelihood, impact, and detectability of risks

Developing mitigation strategies for high-priority failure modes

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Process Hazard and Risk Analysis

Course Outline

✓ 04 DAY FOUR

Fault Tree Analysis (FTA) and Other Risk Assessment Techniques

- ✓ Overview of Fault Tree Analysis (FTA) and its use in risk assessment
- ✓ Constructing fault trees and analyzing the probability of failures
- ✓ Other risk assessment techniques: Event Tree Analysis (ETA), Layers of Protection Analysis (LOPA)
- ✓ Comparing and contrasting different risk analysis methodologies
- ✓ Using software tools for risk analysis and documentation

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Course Outline

✓ 05 DAY FIVE

Mitigation Strategies, Reporting, and Continuous Improvement

- ✓ Developing and implementing mitigation strategies based on hazard and risk analysis
- ✓ Best practices for reporting findings and recommending corrective actions
- ✓ Integrating risk assessment into continuous process improvement efforts
- ✓ Understanding the role of safety culture in process hazard analysis

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
May 10, 2026	May 14, 2026	5 days	4250.00 \$	Qatar , Doha
Aug. 24, 2026	Aug. 28, 2026	5 days	4250.00 \$	UAE , Dubai
Nov. 23, 2026	Nov. 27, 2026	5 days	4950.00 \$	Indonesia , Jakarta
March 15, 2027	March 19, 2027	5 days	4250.00 \$	UAE , Dubai

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