



Consulting and Training | Reach New Heights

Course Name

Risk Based Process Safety Management (RBPS)

Sector Name

Health, Safety and Environment

Document Type

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Risk Based Process Safety Management (RBPS)

Course Introduction

The main objective of a Risk-Based Process Safety Management approach is to assist an organisation in building and operating a more effective process safety management system, and will enable delegates to design or improve each process safety activity associated with the management of process safety within their organization.

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Risk Based Process Safety Management (RBPS)

Target Audience

- ✓ Health and Safety Officers
- ✓ Environmental Health and Safety professionals
- ✓ Health and Safety Managers

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Learning Objectives

- ✓ Understand the principles of Risk-Based Process Safety utilizing the CCPS model
- ✓ Recognize the importance of the necessary commitment to ensure the implementation RBPS management system through an understanding of safety culture
- ✓ Describe the primary international standards related to process safety and the importance of compliance
- ✓ Understand the importance of competency maintenance, including the principles of continuous improvement involving both the workforce and other stakeholders
- ✓ Understand and practice a structured approach to hazard assessment
- ✓ Understand the principles of managing risk
- ✓ Understand and employ the principles of continuous improvement through a structured learning and review process, including audits

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Course Outline

✓ Day 01

Module 1 - Overview Of Risk-Based Process Safety

- ✓ Key Topics: o Accident Prevention Background
- ✓ Case studies
- ✓ Swiss cheese model o RBPS Concepts o Risk-based process Safety Pillars o Risk Based Process Safety Elements o Process Safety Culture
- ✓ Management Commitment
- ✓ The importance of an open and questioning environment of Compliance with Standards
- ✓ Legislation,
- ✓ International Industry Standards,
- ✓ Company Standards of Workforce Involvement, enhancing experience and knowledge
- ✓ Safety Committees
- ✓ Workforce feedback on Stakeholder Outreach
- ✓ Workforce
- ✓ Regulatory bodies
- ✓ Business partners
- ✓ Customers
- ✓ Vendors
- ✓ Environmental interest groups
- ✓ Public

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Course Outline

✓ Day 02

Module 2 - Understand Hazards and Risk

- ✓ KeyTopics: o Process Safety Competency o Process Knowledge Management,
- ✓ Availability of knowledge and its application
- ✓ Maintenance of process safety information
- ✓ Dissemination of knowledge and continuous learning on Hazard Identification and Risk Analysis
- ✓ HAZID
- ✓ HAZOP
- ✓ Quantitative Risk Assessment

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Course Outline

✓ Day 03

Module 3 - Operational Considerations

- ✓ KeyTopics: o Operating Procedures
- ✓ Procedural structure o Safe Work Practices
- ✓ Work Permits o Asset Integrity and Reliability o Contractor Management o Training and Performance Assurance

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Course Outline

✓ Day 04

Module 4 - Operational Readiness 2

- ✓ KeyTopics: o Management of Change o Operational Readiness
- ✓ Pre Start Up Review (PSSR) o Conduct of Operations: o Safe Operating Limits
- ✓ Emergency Management o Emergency Response Planning o Training o Recovery

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Course Outline

✓ Day 05

Module 5 - Learn from Experience

- ✓ Key Topics: o Incident Investigation
- ✓ Importance of near misses (near hits)
- ✓ Root Cause Analysis o Measurement and Metrics
- ✓ Critical Key Performance Indicators (KPIs) o Auditing
- ✓ Internal Audits
- ✓ External Audits o Management Review and Continuous Improvement

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Jan. 25, 2027	Jan. 29, 2027	5 days	4250.00 \$	UAE , Abu Dhabi
June 14, 2027	June 18, 2027	5 days	5950.00 \$	USA , Texas
Aug. 31, 2026	Sept. 4, 2026	5 days	4250.00 \$	UAE , Dubai
Nov. 30, 2026	Dec. 4, 2026	5 days	4250.00 \$	UAE , Abu Dhabi

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