

Fundamentals of Risk Based Process Safety Management

Duration

Two classroom days providing 1.6 CEU (Continuing Education Credits) or 16 PDH (Professional Development Hours)

This course contains 12 technical hours and may be eligible for Continuous Maintenance points by The Board of Canadian Registered Safety Professionals (BCRSP)

Summary

This two-day overview course designed to give operations and technical personnel a basic understanding of the principles of process safety management. The course is designed to be interactive using both group work and case studies to reinforce the learning and understanding.

This overview course is based upon the Risk Based Process Safety Approach developed by the Center for Chemical Process Safety published in 2007. It also takes into consideration the Canadian Society for Chemical Engineering PSM standard.

Who Should Attend

This workshop is recommended for safety professionals that are involved and work with hazardous processes. Safety professionals with plant responsibilities such as Operations and Maintenance, Supervisors, Engineers and anyone who requires a sound understanding of process risk and risk management. Engineers involved in facilities design and construction will especially benefit from this workshop.

Participants will learn to

- Examine and categorize the similarities and differences between occupational and process safety systems, and describe their functions operating in tandem.
- Compare and contrast current Industry Standard Process Safety Management (PSM) programs.
- Develop an understanding of Risk-Based Process Safety Management (RBPSM) and its applicability in the industry.
- Identify and analyze the importance and key details of each PSM component.
- Discuss the application of each PSM element and their impact on daily work activities.
- Establish and describe the relationship between safety culture and PSM.
- Formulate practical strategies using succinct comparisons and analytical approaches to investigate areas requiring additional scrutiny.
- Demonstrate the methodology for integrating PSM into current safety management systems and propose key implementation procedures for applying PSM in the field.

Course Outline

- History of Safety
- Process Safety Management in Canada
- Drivers for Process Safety
- Comparison of Programs
- How the PSM Standard Works
- Program Components Overview

Course Agenda**Part One - Commitment to Process Safety**

1. Leadership
2. Employee Participation
3. Compliance to Standards
4. Workforce Competency
5. Stakeholder outreach and engagement

Part Two – Understand Hazards and Risks

1. Process Knowledge Management
2. Hazard Identification and Risk analysis

Part Three – Manage Risk

1. Operating Procedures (Normal and Abnormal)
2. Safe Work Practices
3. Asset Integrity and Reliability
4. Contractor management
5. Training and Performance Assurance
6. Management of Change
7. Operational Readiness
8. Conduct of Operations
9. Emergency Management

Part Four – Learn from Experience

1. Incident Management
2. Measurement and Metrics
3. Auditing
4. Management Review and Continuous Improvement

Instructor

Guillermo Pacanins is an Electrical Engineer, P. Eng. and TUV Functional Safety Expert with over 26 years of experience in Process Controls and Functional Safety, and has taught Process Automation courses to many of the world's largest corporations. His excellent communication and leadership skills, combined with his in-depth understanding of Process Safety Engineering, have contributed to his success as a Functional Safety analyst/education.

Available for In-House Group Delivery

This course is available for In-House Training and the content can be customized to suit the needs of your organization. For more information or to request a proposal, please email inhourequests@peice.com or call 713-482-3858 (USA), 403-284-1250 (Canada).