**Process Safety Management (PSM)**

MP4 | Video: h264, 1280x720 | Audio: AAC, 44.1 KHz, 2 Ch  
Genre: eLearning | Language: English | Duration: 6 lectures (2h 34m) | Size: 791.3 MB

Risk-Based Process Safety (RBPS)

**What you'll learn:**  
To provide a general background of Process Safety Management (PSM) and its basic structure.  
To briefly discuss the evolution of PSM and its elements.  
To understand the Risk-Based Process Safety (RBPS) system.  
To study 14 elements and 20 elements PSM system.  
  
**Requirements**  
No specific requirements for learning the concept of Process Safety Management (PSM).  
  
**Description**  
•PSM is a framework for identifying and managing process risks.  
  
•It is a type of safety management system that is specific for the process industries.  
  
•The ultimate goal of PSM is to prevent the occurrence of major hazard incidents which are not appropriately addressed through traditional occupational health and safety procedures.  
  
•PSM strives to ensure all hazards of a process are identified and effectively managed for the lifetime of the process, regardless of changes in personnel, organization, or environment.  
  
•In fact, PSM is the proactive application of management principles to a process for the prevention of loss of containment events.  
  
PSM system is founded on four themes:  
  
1) Commitment of management and corporate objectives to PSM.  
  
2) Hazard assessment, including process knowledge and hazard identification.  
  
3) Risk management such as managing change in the process and change in personnel.  
  
4) Continual improvement such as furthering employee competency, enhancing process safety, etc.  
  
•OSHA’s process safety management (PSM) program is divided into 14 elements.  
  
•OSHA (CFR 1910.119) defines all 14 elements of PSM plan.  
  
1. Process Safety Information  
  
2. Process Hazard Analysis  
  
3. Operating Procedures  
  
4. Training  
  
5. Contractors  
  
6. Mechanical Integrity  
  
7. Hot Work  
  
8. Management of Change  
  
9. Incident Investigation  
  
10. Compliance Audits  
  
11. Trade Secrets  
  
12. Employee Participation  
  
13. Pre-Startup Safety Review (PSSR)  
  
14. Emergency Planning and Response  
  
Center for Chemical Process Safety (CCPS) - American Institute of Chemical Engineers (AIChE) -  
  
Risk-Based Process Safety Management (RBPS) - 20 Elements  
  
1. Process Safety Culture  
  
2. Compliance with Standards  
  
3. Process Safety Competency  
  
4. Workforce Involvement  
  
5. Stakeholder Outreach  
  
6. Process Knowledge Management  
  
7. Hazard Identification and Risk Assessment (HIRA)  
  
8. Operating Procedures  
  
9. Safe Work Practices  
  
10. Asset Integrity and Reliability  
  
11. Contractor Management  
  
12. Training and Performance Assurance  
  
13. Management of Change (MOC)  
  
14. Operational Readiness  
  
15. Conduct of Operations  
  
16. Emergency Management  
  
17. Incident Investigation  
  
18. Measurement and Metrics  
  
19. Auditing  
  
20. Management Review and Continuous Improvement  
  
**Who this course is for**  
Students or Industrial persons who are interested in Safety, Health and Environment field.