



Course Title: CCPS' Overview of Risk Based Process Safety (RBPS)

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| Course ID: | Course Type: |
| CH925 | Instructor-led (classroom) Course |
| http://www.aiche.org/ch925 | |

Course Schedule

Day One

Introductions: Class and Instructor

Introduction to Risk Based Process Safety

- Concepts of Process Safety
- Anatomy of an Incident
- Loss of Containment
- Prevention Loss of Containment Events
- Mitigation of Loss of Containment
- Introduction to Management Systems

The Four Pillars and 20 Elements of Risk Based Process Safety:

Pillar One: Commit to Process Safety

1. Process Safety Culture
2. Compliance with Standards
3. Process Safety Competency
4. Workforce Involvement
5. Stakeholder Engagement

Pillar Two: Understanding Hazards and Risk

6. Process Safety Knowledge Management

Day Two

Pillar Three: Manage Risk

7. Hazard Identification and Risk Analysis
 - Probability
 - Risk Analysis
 - Risk Acceptance and Management
8. Operating Procedures
9. Safe Work Practices
10. Asset Integrity and Reliability
11. Contractor Safety Management
12. Training and Performance Assurance
13. Management of Change
14. Operational Readiness
15. Conduct of Operations
16. Emergency Management

Pillar Four: Learn From Experience

17. Incident Investigation
18. Measurement and Metrics
19. Audits
20. Management Review/Continuous Improvement