

Course Title: CCPS' Foundations of Process Safety

Course ID:	Course Type:
CH910	Instructor-led (classroom) Course
http://www.aiche.org/ch910	

Course Schedule

Day One

7:30 - 8:00	Registration
8:00 - 8:15	Welcoming Remarks
8:15 - 11:30	Introduction to Process Safety
	Key Concepts and Anatomy of an Incident
	Loss of Containment (and Prevention/Mitigation)
11:30 - 12:30	Lunch Break
12:30 – 5:00	Management Systems for Process Safety – a Risk-Based Approach

FIRST FOUNDATION BLOCK – COMMIT TO PROCESS SAFETY

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

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Day Two

8:00– 11:30 FIRST FOUNDATION BLOCK--COMMIT TO PROCESS SAFETY (continued)

Human Factors

6. Process Safety Knowledge Management Elements of Process Knowledge Management

6.1 Inherent Hazards of Chemicals Flammability & Combustibility Chemical Reactivity Hazards

Toxicity Corrosivity

11:30- 12:30 12:30- 5:00 Lunch Break

6.2 Process Plant Design Considerations

Inherently Safer Design Concepts

Layout & Spacing

Overpressure & Vacuum

Fire Prevention & Mitigation Hazardous Area Classification

Static Electricity, Grounding, Bonding, and Inerting

Flame & Detonation Arrest

Fireproofing, Firewalls, and Emergency Isolation

SECOND FOUNDATION BLOCK – UNDERSTANDING HAZARDS & RISKS

7. Hazard Identification and Risk Analysis (HIRA) Hazard Identification

Day Three

8:00-11:30

7. Hazard Identification and Risk Analysis (HIRA) (continued)
Analyzing Potential Consequences & Impacts

Estimating Probability

Risk Analysis, Risk Assessment, and Risk Tolerance

THIRD FOUNDATION BLOCK - MANAGE RISK

8. Operating Procedures

11:30- 12:30 12:30- 5:00 Lunch Break

9. Safe Work Practices

10. Asset Integrity and Reliability

11. Contractor Management

12. Training and Performance Assurance

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Day Four

8:00– 11:30	THIRD FOUNDATION BLOCK—MANAGE RISK (continued) 13. Management of Change 14. Operational Readiness 15. Conduct of Operations 16. Emergency Management
11:30- 12:30	Lunch Break
12:30- 5:00	FOURTH FOUNDATION BLOCK—LEARN FROM EXPERIENCE
	17. Incident Investigation
	18. Measures and Metrics
	19. Auditing
	20. Management Reviews and Continuous Improvement

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