

PROCESS SAFETY MANAGEMENT: Principles and Industry Applications

March 13-16, 2017

COURSE AGENDA

DAY 1 - MARCH 13, 2017

7:45- 8:00 am	Registration
8:00 - 9:00 am	Opening Remarks Introduction to Elements of PSM Standard Rick Gleason
9:00 - 12:30 pm	Introduction to the Elements of PSM Regulation Rick Gleason <ul style="list-style-type: none">• Application• Definitions• Employee Participation• Process Safety Information• Process Hazard Analysis• Operating Procedures• Training• Contractors• Pre-startup Safety Review• Mechanical Integrity• Hot Work Permit• Management of Change• Incident Investigation• Emergency Planning and Response• Compliance Audits• Trade Secrets
12:30 - 1:15 pm	Lunch Break
1:15 - 4:00 pm	PSM & RMP Regulatory Compliance Amy Duz <ul style="list-style-type: none">• Application of PSM - Case Studies• Interrelationship of PSM with other OSHA Standards• Risk Management Programs including• Offsite Consequence Modeling• EPA Inspection Process• Process Safety Information (PSI)• Recognized and Generally Accepted Good Engineering Practices (RAGAGEP)
4:00 - 5:00 pm	OSHA PSM Directives and Enforcement Matthew Pauli OSHA Anchorage Area Office

DAY 2 - MARCH 14, 2017

8:00 - 10:00 am	Process Safety Information (PSI)/ Recognized and Generally Accepted Good Engineering Practices (RAGAGEP) <i>continued</i> Amy Duz Including Case Study Examples for Ammonia and Chlorine use Facilities
10:00 - 12:00 pm	Process Hazard Analysis - What-if/Checklist, HAZOP Amy Duz
12:00 - 1:00 pm	Lunch Break
1:00 - 2:00 pm	Management of Change (MOC) Pre-Startup Safety Review (PSSRs) Amy Duz
2:00 - 3:00 pm	Operator Training Amy Duz
3:00 - 4:00 pm	Emergency Planning and Response Amy Duz
4:00 - 5:00 pm	Emergency Planning and Response (<i>continued</i>) Incident Investigation Amy Duz

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DAY 3 - MARCH 15, 2017

Industry Best Practices - Moving Beyond Regulations to a Risk Based Approach to Process Safety and Driving Continual Improvement. *Case Studies from Oil and Gas and other Chemical Process Industries*

8:00 - 10:00 am **Process Safety Lessons Learned/ Re-Learned the Last 50+ Years and the Rationale for Moving Beyond Regulations**
Jerry Jones

- Fundamentals of Risk Management Concepts (including barrier analysis) and a Risk Management Business Process
- Engaging the Entire Organization in Process Safety - Understanding Key Risk Exposures and Identifying Areas for Improvement and Incident Warning Signs

10:00 - 12:00 pm **Commit to Process Safety**
Jerry Jones

- Process Safety Culture
- Looking for Warning Signs Related to Leadership and Safety Culture
- Organizational Self-Assessment: Committed Process Safety Culture, Disciplined Adherence to Standards, Process Safety Competency

12:00 - 1:00 pm Lunch Break

1:00 - 1:30 pm **Commit to Process Safety *continued***
Jerry Jones

- Stakeholder Outreach

1:30 - 3:00 pm **Understanding Hazards and Risks**
Jerry Jones

- Process Knowledge Management (use of process information to select safeguards and make design decisions)
- Looking for Incident Warning Signs Concerning Process Safety Knowledge
- Hazard ID and Risk Analysis -Decision Making Based on Consideration of Consequences and Likelihood of Various Scenarios

3:00 - 5:00 pm **Manage Risks**
Jerry Jones

- Procedural Controls from a Risk Perspective and Looking for Incident Warning Signs Related to Operating and Maintenance
- Operational Readiness Reviews for Every Startup
- Asset Integrity and Reliability

DAY 4 - MARCH 16, 2017

Day Three Industry Best Practices Continued

8:00 - 10:00 am **Manage Risk *continued***
Jerry Jones

- Safe Work Practices (higher hazard activities requiring site work permits)
- Contractor Risk Management and Ensuring Quality of Work on Safety Critical Components/Controls
- Looking for Incident Warning Signs: Training and Performance Assurance, Management of Change (MOC)

10:00 - 12:00 pm **Manage Risk *continued***
Jerry Jones

- Management of Change (MOC) *continued*
- Conduct of Operations

12:00 - 1:00 pm Lunch Break

1:00 - 4:00 pm **Learn from Experience**
Jerry Jones

- Reporting and Investigating Sub-Standard Conditions/ Incidents
- Communicating Lessons Learned and Looking for Incident Warning Signs
- Measures and Metrics to Measure Risk Management System Effectiveness
- Auditing
- Management Review and Workforce Involvement in Organizational Self-Assessments
- **Workshop Discussion to Develop Personal Action Plans to Begin Implementing Best Practices**

4:00 pm **Closing Remarks and Course Evaluation**