

Process Safety Management for Projects & Facility Design

by Ms. Deborah L. Grubbe, PE, CEng
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Overview

Process Safety Management is classically thought of an activity for the manufacturing, production or operations organization. However, many issues in PSM execution can be forever eradicated if they are eliminated in the facility design process. This course will focus on the details of how to address PSM during the design process, and will touch on the key execution steps. There will also be a focus on Inherently Safer Design, with a discussion of what it is and how to implement.

Course Objectives

1. Determine if your process safety design efforts are complete
2. Turn process safety implementation into a competitive advantage
3. Improve your current facility design system
4. Think differently about your process safety implementation
5. Eliminate process safety issues early in your project cycles

Course Content

Day 1: Identifying the Key Elements in Your Design Process

1. Introductions and Objectives
2. Your Facility Design Process Phases
3. PSM Elements Overview
4. Integrating PSM Elements into the Design Process
5. Key Implementation Items identified for every element – When do I consider them?
6. Case Study #1 – When Bad Design Fails the Production Team

Day 2: Assessing the Strengths and Weaknesses of your Design Process PSM

1. The Role of Ethics, Leadership and Culture in the Design Process
2. Stage Gate Reviews
3. How Incidents Occur? The role of the barrier.
4. The role of Inherently Safety Design
5. Creating barriers through more complete design activities.
6. Case Study #2 – Inherently Safer Design Example from DuPont, Bhopal and Bayer

Day 3: The Heart of PSM in Design – The Process Hazards Analysis

1. Importance of Audit and Assessment of the Design Process
2. The heart of PSM in Design – The Process Hazards Analysis; Types and Uses
3. How to evaluate Design Contractors for PSM Competence
4. Summary, Review and Final Questions
5. Evaluation and Conclusion

About the Trainer



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Deborah Grubbe is a well-known consultant with over 30 years of experience in disciplined operations of manufacturing, safety, and engineering across industries including the oil and gas. She has served as Vice-President of Group Safety for BP Global in London, and her term in BP was considered to be the safest years ever for the company. She has also served as Vice-President for Safety Change Management in BP in the US, handling 5 refineries which had the highest need for safety improvement. Moreover, she is well-experienced in the characteristics of safe operations during her 27 years at DuPont. She has held corporate director position in safety, operations, and engineering. Aside from her industry experience, she is also a lecturer for Process Safety Management at Purdue University since

Her organizational affiliations spans across governmental, industrial and technical, and education bodies:

- US National Safety Council, Board of Trustee (Present)
- International Safety Council, Board of Directors (Previous)
- American Institute of Chemical Engineers, Board of Directors (Previous)
- Center for Chemical Process Safety (Previous)
- National Society of Professional Engineers, Vice Chair (Previous)
- State of Delaware Registration Board for Professional Engineers (Previous)
- American Society of Safety Engineer Member (Present)

Deborah Grubbe is currently the owner and principal consultant of Operations and Safety Solutions LLC, a consultancy firm which specializes in safety and operations troubleshooting and support, with her major clients including Shell and Dupont. She also serves in Purdue University College of Engineering as member of Dean's Advisory Council, Process Safety Management Course Developer, and Lecturer. She is currently a member of the Board of Advisors and a lecturer for the University of Alabama-Birmingham Advanced Safety and Engineering Management Master's Program.

Investment Fee

SG\$2,985.00 per person

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For more information, registration or any inquiries, kindly contact us at:

Marylen Ramos-Velasco
 Email: corp@ctssingapore.com
 Tel. #: +65- 6524 4973
 Mobile: +65 – 83229495; +6015- 48480048
 Fax: # +65-67258438
 www.ctssingapore.com