

This course provides an in-depth study of each PSM elements. The course introduces each PSM element and the specific guidelines for integrating PSM element requirements into other corporate programs and evaluating program compliance throughout the implementation phase. This course also covers basics of the PSM (Level I) and further how to expand your PSM program to include the RBPS (risk-based process safety) elements as proposed by the CCPS (Center for Chemical Process Safety), a division of AIChE (American Institute of Chemical Engineers).

Case Studies – Case studies and exercises are used throughout the course to illustrate interpretations of the requirements and demonstrate ways to develop an effective PSM program, including several video based case studies.



Typical Course Candidates/Participants

- ☐ Managers – Operations, Safety and Executive
- ☐ Engineers – Process, Safety and Mechanical
- ☐ PSM Implementation Team Members – anyone involved with implementation, including operators and maintenance personnel
- ☐ Compliance Auditors
- ☐ Environmental Management and Technicians

What You Will Learn:

- ☐ PSM Elements - Foundation & basics of Process Safety
- ☐ The elements of process safety that are missing from typical PSM systems, including Human Factors elements (communication, human system interface, work environment, staffing, and fitness for duty), Facility Siting element, Project Risk Management, Senior Leadership & Accountability. The Risk-Based Process Safety (RBPS) guide (2007) from CCPS/AIChE is reviewed so you can understand how to close critical gaps
- ☐ Multiple options for implementing an effective need-specific program
- ☐ Specific guidelines for developing cost effective written programs tailored for each PSM element, whether for a single facility or a corporation
- ☐ How to avoid costly implementation mistakes
- ☐ Jargon for communicating PSM requirements to others throughout the organization
- ☐ For each element
 - ➔ How to develop written programs to meet PSM requirements
 - ➔ How to incorporate and integrate the PSM element requirements into other corporate programs (other corporate management systems)
 - ➔ Key performance indicators
- ☐ How to evaluate program compliance throughout implementation
- ☐ How to begin implementation at your company
- ☐ Additional training is necessary for implementation of specific elements
- ☐ The course uses actual and generic case studies
- ☐ To illustrate interpretations of PSM requirements
- ☐ To demonstrate developing an effective PSM program that can be adapted for your facility

Take Home:

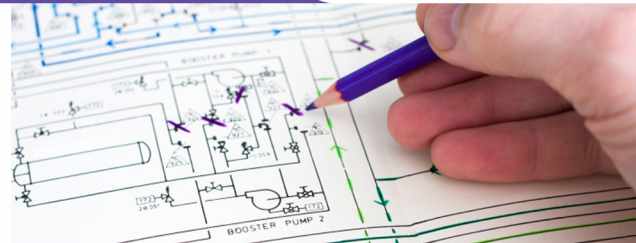
- ☐ Course material
- ☐ Sources of PSM information, including examples of working PSM systems
- ☐ Clarifications and interpretations of OSHA PSM standards
- ☐ Certificate of Completion (Level I); Foundation Course



Course Outline

Day 1 (10:00 a.m. – 5:00 p.m.)

- ☐ Pre-test
- ☐ Introduction to PSM and its origins and goals
- ☐ Overview of PSM standards and regulations world-wide, definitions, compliance interpretations
- ☐ Elements of PSM (1 to 7 Elements)
- ☐ Human error basics
- ☐ Elements missing from most PSM systems, including specific human factor aspects, management commitment & accountability, and project risk management
- ☐ Employee participation
- ☐ Trade secrets
- ☐ Process safety information
- ☐ Operating procedures



Day 2 (10:00 a.m. – 5:00 p.m.)

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| <ul style="list-style-type: none"> <input type="checkbox"/> Elements of PSM (continued) <input type="checkbox"/> Hot work permit/safe work <input type="checkbox"/> Training <input type="checkbox"/> Contractors <input type="checkbox"/> Process hazard analysis <input type="checkbox"/> Mechanical integrity <input type="checkbox"/> Key Performance Indicators, Leading Indicators, and Tracking <input type="checkbox"/> Developing PSM programs, implementation planning | <ul style="list-style-type: none"> <input type="checkbox"/> Emergency planning and response <input type="checkbox"/> Incident investigation <input type="checkbox"/> Compliance auditing <input type="checkbox"/> Summary of roles and responsibilities <input type="checkbox"/> Pre-start-up safety review (PSSR) <input type="checkbox"/> Management of change <input type="checkbox"/> Post-Training Test |
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This 2 days PSM workshop will also have :

- ☐ Group Exercises
- ☐ Video
- ☐ Case Studies

Instructor/s :GCI In-house Experts

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AdSafe +
PSM + BBS +
ZAP + 7S
Program

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(MoEFCC Recognised & NABL Approved Environmental Laboratory & QCI NABET Accredited EIA Consultants)

Corporate Office & Environmental Laboratory

Green Empire (Anupushpam), Above Axis Bank, Nr. Yash Complex, Gotri Road, Vadodara-390 021 (Gujarat) India.

Cell.: ++91 8306345255 / ++91 7226071836

Email: tnd@greencircleinc.com / info@greencircleinc.com

Website: www.greencircleinc.com

Also Visit: www.envergy.co.in

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