

Public Courses

Process Safety Management: Complying with the OSHA and EPA Regulations

In this course, you will learn to:

- Interpret the performance-based requirements of the OSHA PSM regulation and the prevention program portion of the EPA risk management program regulation
- Develop and implement a cost-effective PSM program for a single facility or an entire corporation

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As we go over each element of the regulations, you will study specific guidelines for developing written programs to meet PSM regulations, integrating PSM element requirements into other corporate programs, and evaluating program compliance throughout the implementation phase. You will also get insight into the latest regulatory developments and receive summary documentation of key clarifications by OSHA.

You will take with you extensive examples of actual or generic programs for individual PSM elements, you can adapt many of these programs for use at your facility to satisfy the requirements of the regulations. **Exercises and workshops are used throughout the course to illustrate interpretation**

Do you need further information? Call the course instructors, Myron Casada at (423) 671-5815 or Bill Bridges at (423) 671-5846.

Do you have specific questions you would like answered at the course? Fax your questions to Myron or Bill at (423) 966-5287.

tations of the requirements and demonstrate ways to develop an effective PSM program.

Through this course, you will save time and money when developing your own PSM program. It could cost a company \$100,000 or more to develop the understanding, obtain the resources, and develop the equivalent of the example programs and procedures offered by this course.

The Process Safety Institute (through JBF Associates, Inc.) has fully researched the OSHA and EPA regulations to develop a course that meets your PSM needs. We are a primary technical resource for groups such as CMA, AIChE, API, and AFPA on the subject of PSM. Our company is at the forefront of dealing with regulators on industry's behalf, and we have helped many facilities implement effective PSM programs.

You should attend this course if you are a:

- Process/safety/operations manager
- Process/safety engineer
- Plant employee responsible for developing PSM programs
- Auditor preparing for compliance audits

You will learn strategies for implementing various process safety activities and how PSM programs can be integrated with existing company activities. This course is a prerequisite for Courses 108 and 109.

Five reasons you should attend this course:

1 You will find out whether your facility is covered by OSHA's 29 CFR 1910.119 and EPA's 40 CFR 68.

2 You will develop the understanding necessary to explain the PSM requirements to others in your company who need to understand PSM issues.

3 You will learn how to implement effective programs from instructors who have helped companies like yours develop PSM programs.

4 You will be exposed to a range of options for compliance that will allow you to develop a PSM program that addresses your specific needs. We do not believe "one size fits all" works for PSM programs.

5 Over 1000 alumni attest to the value of this course. Even attendees who have already had considerable PSM experience have told us they learned a lot from our course. Call for references.

"The OSHA PSM regulation course was just what we needed. The practical, experience-based presentation and examples have allowed our company to quickly begin developing and implementing the various elements of the new PSM regulation." — David U. Spinney, Director, Manufacturing Services, Velsicol Chemical Corporation

Course 102

Course Outline

- Day 1** Introduction to PSM
 The regulation
 Regulation history, summary, and definitions
 Covered processes and application issues
 Compliance interpretations
 Citation insights
 Elements of the regulation
 General elements
 Employee participation
 Trade secrets
 Reception – immediately following class
- Day 2** *Understanding and controlling the operation*
 Process safety information Hot work permit
 Operating procedures Training
 Contractors
Understanding and controlling the hazards
 Process hazard analysis Pre-startup safety review
 Management of change Mechanical integrity
- Day 3** *Accidents*
 Emergency planning and response
 Incident investigation
 Compliance auditing
 Developing a PSM program
 Determining priorities
 Developing an implementation program plan
 Implementing the PSM program plan
 Assessing PSM program quality
 Overview of EPA's RMP regulation
 Course examination (optional)
 Course wrap-up

Course Hours

Days 1 and 2, 8:00 a.m. to 5:00 p.m.;

Day 3, 8:00 a.m. to 3:00 p.m.

Note: Approximately 10 workshops and exercises (not shown in the outline) are also used in the course

Five benefits you will gain

1 You can immediately begin applying what you have learned at the course to help your company satisfy OSHA PSM requirements

2 You will get up-to-the-minute information on OSHA and EPA regulatory enforcement activities and interpretations from the company in the know

3 You will be guided by instructors that have real-world experience in developing and installing PSM systems in a variety of facilities

4 You will be able to avoid costly mistakes made by others

5 You will come away from the course with these valuable materials

- A copy of AIChE's 382-page *Plant Guidelines for Technical Management of Process Safety* (1992)
- A copy of the comprehensive course notes that integrate numerous sources of PSM information and clarifications
- A copy of the compliance directive and checklist that OSHA's inspectors will use to review your PSM program
- Extensive examples of PSM programs
- A certificate of completion
- 19 CEUs, 19 COCs, 25 CMs

Offering dates: see course calendar at front of catalog.

Course cost: \$1,195

"Excellent You have helped me get a handle on what PSM is about and what needs to be done Thank you" — Jeff Lafuse, Liquid Plant Manager, Vigoro Industries



Register Today! Call Karen Evans at (423) 675-2580

PSI Calendar of Courses

Subject	Course Title	Page No.	Fees/ Duration	Nov. '95	Dec. '95	Jan. '96	Feb. '96	March '96	April '96	May '96	Jun. '96
Safety/Risk Management	Process Safety Management Complying with the OSHA and EPA Regulations (Course 102)	16	\$1,195 - 3 day			17-19		13-15		20-22	
	Risk Management Programs Complying with EPA's New Regulation (40 CFR 68) (Course 109)	30	\$1,195 - 3 day					18-20		29-31	
	Process Safety Management Compliance Auditing for the OSHA PSM Regulation (Course 108)	28	\$795 - 2 day \$1 095 - 3 day	8-10			21-23			22-24	
	Behavior-Based Safety Management (Course 401)	62	\$795 - 2 day		12-13		19-20		29-30		13-14
	Why Accidents Happen Root Causes (Course 107)	26	\$795* - 2 day					11-12			20-21
PHA, MOC, and Related Analyses	Hazard Evaluation Qualitative Methods (Course 101)	14	\$1,595 - 5 day DOE \$1 295 - 4 day			8-12					
	Process Hazard Analysis Leader Training Using the HAZOP and What-If/Checklist Techniques (Course 103)	18	\$1 695 - 4 day \$2 695 - 5 day (with software)		4-8		12-16		22-26		24-28
	Process Hazard Analysis Leader Training Using the FMEA and What If/Checklist Techniques (Course 105)	22	\$995 - 2 day \$1,295 - 3 day				7-9				
	Advanced Process Hazard Analysis Leader Training (Course 104)	20	\$1 195 - 3 day \$1 495 - 4 day					25-28			
	Updating and Revalidating Process Hazard Analyses (Course 112)	36	\$345 - 1 day		11			29			7
PSM Implementation	Level II Incident Investigator Training (Course 106)	24	\$1 095* - 3 day			9-11			1-3		17-19
	Writing Effective Operating Procedures (Course 110)	32	\$795 - 2 day				5-6				
	Writing Effective Maintenance Procedures (Course 114)	40	\$345* - 1 day	1		22		4		6	
	Mechanical Integrity (Course 111)	34	\$795* - 2 day	2-3		23-24		5-6		7-8	
	Reliability in Maintenance (Course 113)	38	\$795* - 2 day			25-26		7-8		9-10	
Quantitative Risk Analysis	Emergency Management (Course 115)	42	\$795 - 2 day					21-22			
	Supervising Quantitative Risk Assessments (Course 205)	52	\$1,695 - 5 day								
	Hazard Evaluation Quantitative Frequency Analysis Methods (Course 201)	44	\$1,495 - 5 day			29-Feb 2					
	Human Reliability Analysis (Course 204)	50	\$1,495 - 5 day	13-17					15-19		
	Risk Analysis of External Events (Course 207)	56	\$1 395 - 4 day								3-6
	BRAYO² 0 A PC Program for Accident Frequency Assessment (Course 203)	48	\$2 095 - 2 day (with software)		11-12					13-14	
	Hazard Evaluation QRA Failure Data (Course 206)	54	\$1,095 - 3 day (with software)		13-15					15-17	
	Advanced System Reliability Analysis (Course 202)	46	\$1 495 - 5 day								
	Hazard Evaluation Consequence Analysis Methods (Course 301)	58	\$1,495 - 5 day					25-29			
	Performing Hazard Assessments to Comply with EPA's 40 CFR 68 (Course 302)	60	\$1 295 - 3 day	29-Dec 1					10-12		10-12

Note: All courses will be held at PSI's headquarters in Knoxville, Tennessee. Courses in **BOLD** are new.
See course descriptions for multi course discounts.