

# 2012 PII Public Course Calendar – with mini-description of courses Rev 4

Course Title	Typical Course Attendees	Fees/ Duration	Jan. '12	Feb. '12	Mar. '12	Apr. '12	May '12	June '12	July '12	Aug. '12	Sept. '12	Oct. '12	Nov. '12	Dec. '12
<b>Course 1 Overview of Process Safety Management (PSM)</b> – reviews all 14 elements of PSM as defined in US OSHA 29 CFR 1910.119. Excellent for workers	<ul style="list-style-type: none"> <li>Workers – Operations, Maintenance, Lab, support staff</li> <li>Engineers – Process, Safety, and Mechanical</li> <li>Environmental Management and Technicians</li> </ul>	1 day	(only offered as a private course at client site)											
<b>Course 2 Process Safety Management (PSM)</b> – detailed description of each PSM element and how these interrelate. Some exercises and many examples. Great starter for PSM implementers	<ul style="list-style-type: none"> <li>Managers – Operations, Safety, Environment, and Executive</li> <li>Engineers – Process, Safety, and Mechanical</li> <li>PSM Implementation Team Members – Anyone involved with implementation</li> <li>Compliance Auditors</li> </ul>	\$995 – 3 days \$1995 - 3 days, in Oman, Dubai [UAE] or Bahrain		5-7 Dubai 13-15 Char.		30- May 2 Char.			9-11 Char.		24-26 Char.		12-14 Char. 25-27, Dubai	
<b>Course 3 Compliance Auditing for Process Safety</b> – details of how to perform an audit (gather and analyzing data), using PSM elements as the focus	<ul style="list-style-type: none"> <li>PSM Implementation Team Members</li> <li>Managers – Operations, Safety, Environment, and Executive</li> <li>Engineers – Process, Safety, and Mechanical</li> <li>Compliance Auditors</li> </ul>	\$695 – 2 days		16-17 Char. 8-9 Dubai							27-28 Char.		28-29, Dubai	
<b>Course 4 Incident Investigation/Root Cause Analysis Leadership</b> – In-depth explanation and hands-on workshops for perspective investigators/ analysts, cover all aspects and all activities. Uses the best practices from industry	<ul style="list-style-type: none"> <li>Engineers – process, process safety, and mechanical</li> <li>Operations and Maintenance Staff – senior operators, maintenance technicians, supervisors</li> <li>Process reliability staff</li> <li>Process quality control/assurance staff</li> </ul>	\$895 – 3 days, in USA \$1995 - 3 days, in Dubai [UAE] or Bahrain	25-27 Char.	14-16 Dubai 29-Mar 2, Los Angeles		18-20 Knox.	27-29 Dubai	20-22 Char.				10-12 Char.		5-7 Napa

## 2012 PII Public Course Calendar – with mini-description of courses

Course Title	Typical Course Attendees	Fees/ Duration	Jan. '12	Feb. '12	Mar. '12	Apr. '12	May '12	June '12	July '12	Aug. '12	Sept. '12	Oct. '12	Nov. '12	Dec. '12
<b>Course 4-0 Incident Investigation/Root Cause Analysis Overview</b> – overview for workers or management who may participate in investigations	<ul style="list-style-type: none"> <li>Operations and Maintenance Staff, process reliability, and process quality control/assurance staff who may be team members</li> <li>Managers who must ensure active participation on investigation and RCA processes</li> </ul>	1 day	(only offered as a private course at client site)											
<b>Course 5 Writing Effective Operating and Maintenance Procedures</b> – following the rules taught in this course will prevent human error. This course is designed for writers (operators, maintenance workers, etc.)	<ul style="list-style-type: none"> <li>Senior Operations and Maintenance Technicians are the primary targets of this course, since they should write their procedures and take ownership of them (maintenance technicians need only to attend the first day)</li> <li>Engineers – Process, Safety, and Mechanical</li> <li>PSM and Quality Compliance Auditors</li> </ul>	\$695 – 2 days \$1495 - 2 days, in Dubai [UAE] or Bahrain				9-10 Knox.				6-7 Knox.				
<b>Course 6 Mechanical Integrity</b> – explains how to comply with the MI requirements within PSM, as well as how to mesh MI with reliability. Many workshops	<ul style="list-style-type: none"> <li>Designated employee responsible for designing, developing, and implementing a PSM-based MI program</li> <li>Engineers – Mechanical &amp; Plant &amp; Reliability</li> <li>Managers – Plant Manager, Maintenance, and Production</li> <li>PSM Manager or Coordinators</li> </ul>	\$695 – 2 days \$1495 - 2 days, in Dubai [UAE] or Bahrain				11-12 Knox.				8-9 Knox.				
<b>Course 7 Management of Change and PSSR</b> – In-depth explanation and workshops on how to manage changes to procedures, equipment, etc., including how to do simple hazard reviews and explains pre-startup safety reviews	<ul style="list-style-type: none"> <li>Technical Managers and Supervisors</li> <li>HSE professionals</li> <li>Quality control managers and staff</li> <li>Engineers</li> <li>PSM coordinators</li> <li>Most other staff who are involved with designing, implementing, tracking, and evaluating MOC programs</li> </ul>	\$695 – 2 days \$1495 - 2 days, in Oman, Dubai [UAE] or Bahrain						3-4 Char.					15-16 Char.	

## 2012 PII Public Course Calendar – with mini-description of courses

Course Title	Typical Course Attendees	Fees/ Duration	Jan. '12	Feb. '12	Mar. '12	Apr. '12	May '12	June '12	July '12	Aug. '12	Sept. '12	Oct. '12	Nov. '12	Dec. '12
<b>Course 8 PHA/HAZOP Leadership</b> – the best course on how to lead and scribe hazard evaluations; taught by experts who have led hundreds of PHAs. For people who will be leading/scribing	<ul style="list-style-type: none"> <li>Process engineer or project engineer</li> <li>Operations supervisor</li> <li>PSM coordinator</li> <li>E, H, &amp; S Managers &amp; Engineers</li> </ul>	\$1495 – 4 days, in USA \$1795 – 5 days, in USA \$2995 - 5 days, in Dubai [UAE] or Bahrain	9-13 Char.		19-23 Char. (5 <sup>th</sup> Day not available)		20-24 Dubai	25-29 Char.				15-19 Char.	18-22 Dubai	
<b>Course 8-O PHA/HAZOP Overview</b> – review of the requirements and methods. Ideal for managers or for team members	<ul style="list-style-type: none"> <li>Operations and Maintenance Staff, process reliability, and process quality control/assurance staff who may be team members</li> <li>Managers who must ensure active participation in PHA and hazard reviews (HAZOPs, etc.)</li> </ul>	1 day	(only offered as a private course at client site)											
<b>Course 9 PHA Revalidation</b> – best, proven methods for revalidating PHAs/HAZOPs. For experienced PHA leaders	<ul style="list-style-type: none"> <li>This course is primarily for PHA leaders, but anyone with the following background will also find the course valuable:                             <ul style="list-style-type: none"> <li>Process engineer</li> <li>PHA element coordinator/manager</li> <li>PSM coordinator and auditors</li> <li>E, H, &amp; S Managers &amp; Engineers</li> </ul> </li> </ul>	\$695 – 2 days							12-13 Char.			1-2 Char.		
<b>Course 10 Human Error Prevention</b> – covers all of the reasons why human make mistakes and why they develop habits (good and bad) and explains how to optimize each factor to control human error	<ul style="list-style-type: none"> <li>Managers – Operations, Safety, Environment, and Executive</li> <li>Production Supervisors</li> <li>Training Managers</li> <li>Engineers – Process, Safety, and Mechanical</li> <li>PSM Coordinators and Managers</li> <li>PHA (hazard review) Leaders and Incident Investigators</li> </ul>	\$695 – 2 days, in USA \$1495 - 2 days, in Dubai [UAE] or Bahrain	23-24 Char.	12-13, Dubai	27-28, Los Angeles	16-17 Knox.	27-28 Dubai	18-19 Char.				8-9, Char.		3-4 SF/Napa

## 2012 PII Public Course Calendar – with mini-description of courses

Course Title	Typical Course Attendees	Fees/ Duration	Jan. '12	Feb. '12	Mar. '12	Apr. '12	May '12	June '12	July '12	Aug. '12	Sept. '12	Oct. '12	Nov. '12	Dec. '12
<p><b>Course 11</b> <b>Layer of Protection Analysis (LOPA)</b> – thoroughly explains how to perform LOPA to judge risk and to determine the proper SIL. Taught by one of the 3 primary authors of the industry textbook on LOPA</p>	<p>This course is designed for <b>experienced PHA/HAZOP leaders</b>, however, others will benefit from learning this simpler method for estimating risk. Only individuals with a strong technical background (such as engineers and scientists) should attend. Others who may benefit from this course include:</p> <ul style="list-style-type: none"> <li>Managers – Operations, Safety</li> <li>Project Managers</li> <li>Engineers – Process, Safety, and Mechanical</li> <li>PSM Coordinators and Managers</li> </ul>	<p>\$695 – 2 days, in USA \$1495 - 2 days, in Dubai [UAE] or Bahrain</p>			5-6 Knox.			3-4 Dubai			10-11, Knox.			10-11 SF/Napa
<p><b>Course 12</b> <b>Safety Instrumented Systems (SIS &amp; SIL)</b> – explains how to determine when a SIF is needed, determine the proper SIL, specify and design and SIS, verify the SIL, and install and maintain and validate the SIF/SIL. Taught by one of the developers of SIL verification standards.</p>	<p>This course is designed for those needing to learn what are SIS, and especially those wanting to learn how to verify SIL design and install and validate SIS/SIL. The course workshops focus mostly on SIL verification and design. The coverage of SIL determination is minimal since Course 8 and Course 11 cover this topic in detail. Consider taking this course in conjunction with Course 11, LOPA. Those who may benefit from this course include:</p> <ul style="list-style-type: none"> <li>Managers – Operations, Safety</li> <li>Project, Engineering, and Technical Managers</li> <li>Engineers – Instrumentation, Electrical, Process, Safety, and Mechanical</li> <li>Technicians/Specialist - instrumentation</li> <li>PSM Coordinators and Managers</li> </ul>	<p>\$795 – 2 days, in USA \$1495 - 2 days, in Dubai [UAE] or Bahrain</p>			7-8, Knox.			5-6, Dubai			12-13, Knox.			12-13, San Fran
<p><b>Course 13</b> <b>Job Safety Analysis (JSA)</b> – detailed procedures and workshops to teach workers and supervisors how to perform JSAs</p>	<ul style="list-style-type: none"> <li>This course is for anyone involved in operations and maintenance that needs to know how to perform JSAs of new or existing tasks. Ideal for all operators and maintenance workers</li> <li>In addition, full-time safety practitioners, safety committee members, safety coordinators, safety specialists, safety managers, loss control managers, and operations managers can benefit from this course</li> </ul>	<p>3.5 hours (2 sessions offered each day)</p>	(only offered as a private course at client site)											
<p><b>Course 14</b> <b>Human Error Prevention - for Workers</b> – a</p>	<ul style="list-style-type: none"> <li>This course is for anyone involved in operations, maintenance, lab, utilities, and other support areas to a process, with direct hands-on responsibilities. Ideal for all</li> </ul>	<p>1-3 days, depending on needs</p>	(only offered as a private course at client site)											



# 2012 PII Public Course Calendar – with mini-description of courses

Course Title	Typical Course Attendees	Fees/ Duration	Jan. '12	Feb. '12	Mar. '12	Apr. '12	May '12	June '12	July '12	Aug. '12	Sept. '12	Oct. '12	Nov. '12	Dec. '12
<p><b>Course 18</b>  <b>Reliability Leadership for Manufacturing Excellence</b> - Learn excellence in manufacturing practices that are patterned after the best-in-class manufacturing companies.</p>	<ul style="list-style-type: none"> <li>This course is for managers of production, maintenance, and corporate executives; reliability, process, and safety engineers</li> <li>Anyone who leads or influences the direction and success of manufacturing plants</li> </ul>	<p>1-2 days, depending on needs</p>	(only offered as a private course at client site)											