



**Course Title:** CCPS' Advanced Concepts for Process Hazard Analysis

<b>Course ID:</b>	<b>Course Type:</b>
CH754	Instructor-led (classroom) Course
<a href="http://www.aiche.org/ch754">http://www.aiche.org/ch754</a>	

**Course Schedule**

Day One

<b>8:00 - 8:30</b>	Registration
<b>8:30 - 9:00</b>	Introductions; course overview
<b>9:00 - 10:00</b>	Bow-Tie Analysis
<b>10:00 - 10:15</b>	Morning Break
<b>10:15 - 12:00</b>	Layer of Protection Analysis (LOPA)
<b>12:00 - 1:00</b>	Lunch Break
<b>1:00 - 3:00</b>	Conditional modifiers; HAZOP/LOPA
<b>3:00 - 3:15</b>	Afternoon Break
<b>3:15 - 5:00</b>	HAZOP/LOPA of example process (workshop exercise)

Day Two

<b>8:00 - 10:00</b>	Concept of importance measures applied to PHAs (workshop exercise)
<b>10:00 - 10:15</b>	Morning Break
<b>10:15 - 12:00</b>	Using a PHA to identify Safety Instrumented Systems and determine Safety Integrity Levels
<b>12:00 - 1:00</b>	Lunch Break
<b>1:00 - 2:30</b>	Tools for assessing impacts of PHA scenarios
<b>2:30 - 3:00</b>	Evaluating chemical reactivity hazards in PHAs
<b>3:00 - 3:15</b>	Afternoon Break
<b>3:15 - 4:30</b>	Additional topics of interest; course wrap-up