

# AICHE® INSTRUCTOR LED TRAINING

Course Number: CH157	Course Title: <b>HAZOP Studies &amp; Other PHA Techniques for Process Safety &amp; Risk Management</b>
<a href="http://www.aiche.org/ccps/education/courses/ch157/hazop-studies-and-other-pha-techniques-process-safety-and-risk">http://www.aiche.org/ccps/education/courses/ch157/hazop-studies-and-other-pha-techniques-process-safety-and-risk</a>	

## Day 1

- 8:00 - 8:30:** Registration
- 8:30 - 9:00:** Introductions; course overview
- 9:00 - 10:00:** PHA requirements and standards
- 10:00 - 10:15:** Break
- 10:15 - 12:00:** Anatomy of process incidents; inherent safety reviews
- 12:00 - 1:00:** Lunch
- 1:00 - 3:00:** Basic concepts of the HAZOP Study methodology
- 3:00 - 3:15:** Break
- 3:15 - 5:00:** HAZOP scenario development

## Day 2

- 8:00 - 10:00:** Application of HAZOP Study to a continuous process  
(workshop exercise)
- 10:00 - 10:15:** Break
- 10:15 - 12:00:** Determining the adequacy of safeguards; documenting findings and recommendations
- 12:00 - 1:00:** Lunch
- 1:00 - 2:30:** Preparation for the PHA and first team meeting
- 2:30 - 3:00:** Overview of other techniques; Checklist Analysis
- 3:00 - 3:15:** Break
- 3:15 - 4:30:** Application of What-If Analysis to a continuous process  
(with workshop)

## Day 3

- 8:00 - 9:30:** Application of FMEA to a continuous process  
(with workshop)
- 9:30 - 10:00:** Introduction to Fault Tree Analysis; Method selection
- 10:00 - 10:15:** Break

**10:15 - 12:00:** Hazard evaluation of procedure-based operations  
(with workshop)

**12:00 - 1:00:** Lunch

**1:00 - 2:00:** PHA updates and revalidations

**2:00 - 2:30:** PHA completion and reporting

**2:30 - 4:30:** Comprehension check and review

