

CH157: HAZOP Studies and Other PHA Techniques for Process Safety and Risk Management (3 Days)

Day 1

- Overview of the OSHA PSM Rule and EPA RMP regulations relative to PHAs
- Concepts of hazard evaluations and incident scenarios
- Determining the adequacy of safeguards
- Findings and recommendations
- Basic concepts of the HAZOP Study methodology

Day 2

- Application of HAZOP Study to a continuous process (with workshop exercise)
- Preparation for the PHA and first team meeting
- Other hazard evaluation methods
- Application of What-If Analysis and FMEA to a continuous process (with workshops)
- Method selection

Day 3

- Hazard evaluation of procedure-based operations (with workshop)
- Hazard evaluation of PLC-controlled processes
- PHA updates and revalidations
- Final team meeting; quality check
- PHA reporting
- Comprehension check