

Course Overview:

The goal of this course is to develop a basic understanding of the requirements for a Process Hazards Analysis (PHA) and the techniques used to conduct such an analysis. Participants will collaborate in small groups to analyze scenarios using incident videos and case studies. They will use critical thinking skills to predict potential problems

Course Objective:

- Learn from experts how to perform a PHA, including collecting information, selecting the team, leading a meeting, and documenting results
- Focus on human factors issues to analyze procedures in areas such as startup, shutdown, and maintenance

Course Outline:

- Planning and Preparing for a PHA
- Hazard Identification
- Consequence Analysis
- Process Hazards Evaluation
- Determine Consequences with Loss of Engineering and Administrative Controls
- Identify Independent Layers of Protection
- Determine Frequency
- Determine Risk
- Identify Risk Mitigation Needs
- Develop and Prioritize

Who Should Attend:

Operations, technology, engineering, maintenance and safety managers; technical, operations and maintenance engineers; frontline supervisors with prior exposure to operational risks; PHA element/committee leader and team members; and site process safety management committee members

Training Language:

Eng/Ar

Training Methodology:

- Presentation & Slides
- Audio Visual Aids
- Interactive Discussion
- Participatory Exercise
- Action Learning
- Class Activities
- Case Studies
- Workshops
- Simulation