

## ***Process Safety Essentials for Facility Personnel***

Facilities that implement process safety management programs to comply with government regulations or follow industry guidelines must ensure that their personnel understand process safety and their role in its continuous implementation.

This training provides the most comprehensive treatment of process safety currently available. It is intended to help companies build more robust, complete and effective process safety management programs.

The course incorporates elements required by process safety regulations and by CCPS's Risk Based Process Safety (RBPS) program but also includes additional elements that are now recognized as key aspects of process safety.

Hands-on workshops and exercises are used to assist attendees in understanding and applying vital aspects of process safety elements. Videos are used to emphasize and illustrate key points.

### **Objective:**

Contribute effectively to the ongoing implementation of the process safety program for a facility.

### **Target Audience:**

All facility personnel who may play a part in the ongoing implementation of a facility's process safety program including management, engineering, operations and maintenance personnel.

Personnel who are new to process safety will benefit from the broad overview provided of all process safety elements. Experienced process safety practitioners will benefit from the comprehensive coverage of all aspects of process safety which enables the improvement of existing process safety programs.

### **Course Topics:**

- Overview of process safety
- Process safety management systems
- Process design and engineering
- Inherent safety
- Personnel competency and training
- Standards compliance
- Personnel involvement
- Stakeholder outreach
- Performance indicators
- Process safety culture
- Human and organizational factors
- Alarm management
- Facility and stationary source siting
- Hazard identification and risk analysis
- Damage mechanism review
- Safeguards protection analysis
- Hierarchy of controls
- Bow-tie diagrams
- Layers of protection analysis
- Quantitative risk analysis
- Procedures and safe work practices
- Operational discipline and readiness
- Management of change and asset integrity
- Contractor and emergency management
- Incident Investigation
- Auditing
- Management review

### **Duration:**

Three days, 2.1 CEUs awarded

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