Process Safety Engineering Principles - PSE - eLearning Course

COURSE

About the Course

The online Process Safety Engineering Principles Blended Program provides an overview of process safety engineering fundamentals for hydrocarbon processing facilities. The focus of this course is on the engineering/design aspects of Process Safety Management. Frequent reference is made to historical incidents and recurring problem areas. Techniques for analyzing and mitigating process safety hazards applicable to oil and gas processing will also be reviewed. This program integrates the concepts covered to achieve a measured approach to Process Safety Engineering.

Duration: Approximately 40 hours of self-paced, online work.

Target Audience

Anyone who has to deal with concepts of process safety engineering, including facilities engineers, process engineers, design engineers, new safety/loss engineers, project engineers, operations supervisors, maintenance supervisors, and representatives from insurance companies or regulatory agencies.

You Will Learn

- Types of equipment and process systems that have historically been problematic in the Upstream and Midstream oil and gas industry
- Basics of risk analysis
- Thinking in terms of Inherently Safer Design
- Most common process hazard analysis methods and where they are used
- Layers of Protection concept - what the different layers are and how they are applied
- Detection and mitigation methods for different types of hazards

Course Content

This course is comprised of the following skill modules (Approx. 4 Hours Each):

- Process Safety Risk Analysis & Inherently Safer Design
- Process Hazards Analysis & Layers of Protection Analysis Techniques
- Leakage & Dispersion of Hydrocarbons
- Combustion Behavior of Hydrocarbons
- Sources of Ignition & Hazardous Area Classification

- Specific Plant Systems & Equipment
- Relief & Flare Systems
- Historical Incident Databases, Plant Layout, & Equipment Spacing
- Fire Protection Systems
- SIS, Monitoring, & Control

Product Details

Categories: Midstream

Disciplines: Process Facilities Health, Safety, Environment

Levels: Basic

Product Type: Course

Formats Available: On-Demand Virtual

Instructors: PetroSkills Specialist

On-Demand Format

| Course | On-Demand (Available Immediately) $3,890.00