

Introduction to Industrial Fire Protection Engineering

Course Description

This 2-day course will introduce you to fire protection engineering fundamentals related to building materials and design, water supplies for fire protection, fire extinguishing systems, fire alarms systems, special occupancies and hazards, and storage of flammable and hazardous materials. You will be introduced to the basics of using occupancy hazard classification for determining sprinkler densities and hose streams, procedures for determining fire flow demand for non-sprinkler-protected facilities, procedures for integration of associated alarm systems, and procedures for performance based fire safety.

Learning Objectives

Upon completion of this course the participant will be able to:

- Describe the principles of fire protection engineering that affect building materials and design.
- Understand the potential fire hazards common to industrial facilities and fire protection engineering techniques that can be used to prevent or mitigate fires in these facilities.
- Understand how to provide an adequate water supply for fire protection
- Describe the different types of systems for fire detection, alarm, reporting and evacuation typical within industrial facilities.
- Describe the requirements of special hazards and occupancies.
- Understand the occupancy hazard classification system
- Discuss performance based fire safety design, codes and other professional resources.

Pre-requisite

Basic understanding of the principals of fire protection engineering

Who will benefit: Experience Level Basic

FPEs, Architectural, civil, structural, mechanical and electrical engineers engaged in the design of buildings and related infrastructure.

Course assessment

Participants will be assessed via a written exam upon completion of training. They will need to pass with minimum score of 70%.

Professional Development Hours

Upon completion each participant qualifies for 14 PDHs 1.4 CEUs. A certificate of completion will be awarded.