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Knowledge

Course Catalog

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2008 Changes to NFPA 72, Module 1

This course covers changes to NFPA 72 Chapter 1 - Administration, Chapter 2 - Referenced Publications, and Chapter 3 - Definitions. Before attempting this course, you should be reasonably familiar with the requirements of NFPA 72-2002, National Fire Alarm Code.

2008 Changes to NFPA 72, Module 2

This course covers changes to NFPA 72 Chapter 4 - Fundamentals of Fire Alarm Systems. Before attempting this course, you should be reasonably familiar with the requirements of NFPA 72-2002, National Fire Alarm Code.

2008 Changes to NFPA 72, Module 3

This course covers changes to NFPA 72 Chapter 5 – Initiating Devices. Before attempting this course, you should be reasonably familiar with the requirements of NFPA 72-2002, National Fire Alarm Code.

2008 Changes to NFPA 72, Module 4

This course covers changes to NFPA 72 Chapter 6 – Protected Premises Fire Alarm Systems and Chapter 7 – Notification Appliances for Fire Alarm Systems. Before attempting this course, you should be reasonably familiar with the requirements of NFPA 72-2002, National Fire Alarm Code.

2008 Changes to NFPA 72, Module 5

This course covers changes to NFPA 72 Chapter 8 – Supervising Station Fire Alarm Systems, Chapter 9 – Public Fire Alarm Reporting Systems, Chapter 10 – Inspection, Testing and Maintenance, and Chapter 11 – Single- and Multiple-Station Alarms and Household Fire Alarm Systems. Before attempting this course, you should be reasonably familiar with the requirements of NFPA 72-2002, National Fire Alarm Code.

2008 Changes to NFPA 72, Module 6

This course covers changes to NFPA 72 Chapter 8 – Supervising Station Fire Alarm Systems, Chapter 9 – Public Fire Alarm Reporting Systems, Chapter 10 – Inspection, Testing and Maintenance, and Chapter 11 – Single- and Multiple-Station Alarms and Household Fire Alarm Systems. Before attempting this course, you should be reasonably familiar with the requirements of NFPA 72-2002, National Fire Alarm Code.

Authorities and Requirements

Determine the authorities that will issue requirements that may impact fire alarm system design; discuss basic power and electrical requirements for fire alarm systems.

Automatic Sprinkler Inspection, Testing & Maintenance

Addresses the inspection, testing, and maintenance requirements for automatic sprinkler systems.

Basic Circuit Design

This course will introduce you to basic wiring designs and their operation as part of a fire alarm system.

Closing the Project & Series Overview

Once Project Execution begins, Project Managers need to be able to keep the project from getting off track. This course addresses the steps and precautions that must be taken to do just that. It covers how to measure, evaluate, and adjust project progress in order to reach goals and satisfy project objectives.

Commissioning Fire Alarm Systems

Determine the requirements for commissioning a fire alarm system.

Control Plans & Risk Management

Once the project gets underway, the Project Manager needs to control the project tasks and outputs. This course will prepare participants to handle corrections and changes to their projects and also address the appropriate way to plan for and respond to potential risks.

Controlling the Project

Once Project Execution begins, Project Managers need to be able to keep the project from getting off track. This course addresses the steps and precautions that must be taken to do just that. It covers how to measure, evaluate, and adjust project progress in order to reach goals and satisfy project objectives.

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Decomposition Using a WBS

This course continues to explain aspects of the planning process, namely, how to decompose a project using a Work Breakdown Structure. Its basic elements and format are both discussed.

Deluge and Preaction Systems

Addresses the application, operation, and inspection, testing and maintenance of deluge and preaction automatic sprinkler systems.

Dry-Pipe Systems

Addresses the application, operation, and inspection, testing and maintenance of dry-pipe automatic sprinkler systems.

Electrical Fundamentals

Introduces and explains the fundamentals of the direct current (dc) circuits that are commonly used in fire alarm systems.

Estimating

This course will give participants the tools and knowledge they need to make more accurate estimates. This aspect of planning will be critical for later phases of a project.

EVACS Applications

Covers the use of emergency voice alarm communication systems (EVACS) and the requirements for these systems in the 1999 Edition of NFPA 72, National Fire Alarm Code.

Executing the Project

All of the planning that goes into project management was leading up to something, and here it is! This course will instruct participants on how to carry out the project plans they have made. We will cover Execution elements, how to determine project status, and common pitfalls of Execution management.

Fire Alarm Inspection and Maintenance

This course discusses responsibility for the elements of system inspection and maintenance programs, and what it takes to put these in place. Methods, timeframes and the program development will be explored.

Fire Alarm Organizations

Introduces and explains the major organizations involved in the development of fire alarm codes and standards, conducting fire alarm product testing, or providing training and certification programs for individuals who design, install, test or maintain fire alarm systems.

Fire Alarm Plans and Code Requirements

Identify various plan symbols used in fire alarm design; identify model building and fire codes applicable to fire alarm systems.

Fire Alarm System Functions

This course will help you understand the fundamentals of alarm systems and how they function.

Fire Alarm System Testing

Determine the requirements for testing methods and frequencies for fire alarm system.

Fire Safety Control Functions

Discusses the fire safety control functions controlled by a building fire alarm system, and the requirements contained in the 1999 Edition of NFPA 72, National Fire Alarm Code, for these fire safety control functions.

Firestop Installation Methods and Instructions

This module reviews how to install various types of firestopping.

Firestop System Selection

This module reviews Firestop System Selection, using the UL Fire Resistance Directory.

Firestopping Inspections and Safety Considerations

This module reviews firestopping inspection and testing procedures, with a focus on MSDS and personal protective equipment.

Firestopping Products and Materials

This module reviews firestopping products and materials and interpretation of manufacturer installation diagrams.

Flammable Liquids

Introduces the basic concepts of flammable liquids and defines terms used in understanding flammable and combustible liquids.

Flammable Liquids: Portable Containers

Examines the smaller containers used to transport liquids from one place to another in a building, the class of the liquid relative to the size and type of small containers, and the amount of liquids small containers can hold.

Flammable Liquids: Storage Room

Discusses the components needed to develop a safe storage area for flammable and combustible liquids inside a commercial or industrial facility. Also covered are the protection and construction features, location, and exposures to other parts of the facility.

Heat Detector Placement

Addresses the placement of heat detectors to comply with the requirements of the 1999 Edition of NFPA 72, National Fire Alarm Code.

Heat Detectors

Discusses the fire safety control functions controlled by a building fire alarm system, and the requirements contained in the 1999 Edition of NFPA 72, National Fire Alarm Code, for these fire safety control functions.

Hot Work

Learn about how to safely perform hot work in a industrial environment.

Introduction to Automatic Sprinklers

Covers the major reasons for sprinkler system failure, improper design issues, and a short history of automatic sprinkler system development.

Introduction to Fall Protection

This introductory course will explain: Types of Falls Hazards, Why Fall Hazards are a Problem, What Happens When Someone Falls, What Is Required by Regulations, and Predicting Fall Hazards.

Introduction to Firestopping and Applicable Codes

This module provides awareness of importance/purpose of fire barriers and firestopping and reviews applicable firestopping codes and criteria.

Introduction to Initiating Devices

This course explains initiating devices such as the fire detectors, manual fire alarm boxes, flow switches and other devices used to initiate signals on a fire alarm system.

Introduction To Project Management

This course will let participants know what to expect from this Project Management Series as a whole and also walk them through the basic terms, concepts, and roles of Project Management.

Introduction to Specialized Fire Detectors

In some applications, we must detect fires much smaller, and much more quickly than conventional fire detectors will actuate. For those applications, we must rely on specialized fire detectors. The specialized fire detectors examined in this course include the following: Flame Detectors, Spark/Ember Detectors, and Explosion Detectors.

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Module 1: An Introduction to NFPA 70E

Module 1 discusses the purpose of NFPA 70E and the scope of the standard. It provides an overview of elements of an electrical training program as well as the types of equipment used in establishing a program.

Module 2: Establishing an Electrically Safe Work Condition

Module 2 covers the elements of an Electrically Safe Work Condition, the principles of lockout/tagout, energy control procedures and protective grounding.

Module 3: Energized Electrical Work Permits

Module 3 explores the sections of the standard that provide workers with safety guidelines for times when de-energizing is not possible or when it could create increased or additional hazards.

Module 4: Personal Protective Equipment and Clothing

Module 4 covers the general requirements for Personal Protective Equipment (PPE) and Flame Resistant (FR) clothing and how to select PPE for the specific hazards involved with various tasks.

Module 5: Use and Care of Protective Equipment and Other 70E Requirements

This module examines the additional requirements for Personal Protective Equipment. Employees must be provided with and use PPE where electrical hazards are present.

Nature of Smoke

Explains the harmful nature of smoke to building occupants in the event of a fire. Questions addressed include: how smoke affects visibility, what is the toxicity of smoke, and what are the temperature effects of smoke.

NEC Requirements

Covers National Electrical Code wiring and installation requirements for fire alarm circuits,

devices, and appliances.

Notification Appliance Placement

Covers the placement of audible and visible notification appliances in accordance with the 1999 Edition of NFPA 72, National Fire Alarm Code. Discusses the application of notification appliances to comply with the Americans with Disabilities Act Accessibility Guidelines (ADAAG).

Notification Appliances

This course will explain the application and use of the lights, horns, bells and other fire alarm notification appliances used to alert building occupants, fire brigade members and others of a fire or other condition that requires action.

Organizational Planning and Procurement

This course will cover two essential elements of project management: Organizational Planning and Procurement. Participants will learn techniques for acquiring and organizing staff and how to solicit and secure resources outside the immediate project team.

Overview of Hazardous Commodities

Covers the basics of flammable liquids, plastics and aerosols. Also discusses proper storage techniques, safety precautions, and official NFPA guidelines for hazardous commodities.

Planning the Project

Planning is an extremely important activity, but is often seen as a waste of time or a delay before the "real work" is done. This course exposes how necessary planning elements are and uncovers their connection to the other phases.

Power Supplies

This course will help you understand the fundamentals of the power supplies used in Fire Alarm Systems. In addition, you will review the power supply requirements for all systems, and also learn about the importance of power supply requirements in system design.

Project Initiation

This course provides an overview of the necessary steps in the Initiation Phase. We will go over how authorization is gained, elements of a project charter, and potential limitations of any project.

Scheduling and Sequencing

None of the planning components that we've discussed so far show the sequence of events that must occur in the project. Nor do they show the schedule for the project—when the tasks must start and end. This course investigates tools and techniques to sequence and schedule the work of the project.

Smoke Detector Placement

Addresses the placement of spot-type smoke detectors to comply with the requirements of the 1999 Edition of NFPA 72, National Fire Alarm Code.

Smoke Detectors

Learn about the two types of Smoke Detectors, their advantages and disadvantages, their operating principles, and their sensitivity to smoke.

Special Hazardous Commodities

Discusses the special hazards associated with roll paper, hanging garments, carpet and cold storage.

Special Sprinkler Systems

Addresses sprinkler heads and sprinkler systems that may be used for unusual or special applications.

Sprinkler Components

This course focuses on identifying the major components that are common to all types of automatic sprinkler systems, including the water supply, piping, and sprinkler heads.

Sprinkler Design

Addresses the configuration of piping systems for automatic sprinkler systems, including pipe schedule systems and hydraulically designed systems.

Sprinkler Systems: Planned Impairments

Learn about how to safely repair a sprinkler system with minimal risk to the facility while the sprinkler system is off-line.

Supervisory Initiating Devices

Learn about the important "oversight" function of Supervisory Initiating Devices to fire alarm systems, security, process control, and other critical functions.

The People Side of Project Management

The close interaction of different personality types on a project creates the potential for tremendous benefits, but also presents many challenges. This course affirms and explores the connection between understanding social habits and effectively managing (and participating in) your projects.

Warehouse Fire Safety - Fire Problems

Covers the unique and common fire problems involved with the storage of goods, presents the major causes of fires in warehouses, and discusses the actions to reduce these fires.

Wet-Pipe Automatic Sprinkler Systems

Addresses the application, operation, and inspection, testing & maintenance of wet-pipe automatic sprinkler systems.