

DP: Design Protection with Fire Code Protection (NFPA) Seminar Outline

Overview:

Consulting sessions to assist engineers from different consulting offices to fully master the life safety code NFPA. The purpose of these sessions is to cover all the safety requirements and to help the engineer avoid common fundamental design mistakes and to get the design right from the first time leaving the technical monitor with as little corrections as possible. The sessions shall include a maximum of 10 to 12 engineers & major articles of NFPA 101 code are distributed.

Structure: 18 hours to be carried out over 3 days.

Content:

- ❖ **Fundamental requirements, classification of occupancy and hazard of contents:**
This chapter will include all basic concepts to take into consideration while thinking about life safety from fire, and classification of occupancy into: educational, health care, residential, hotels, mercantile, business, industrial, storage, car parks and high-rise buildings. In addition to a classification of hazard contents. An introduction of means of egress will be exposed.
- ❖ **Means of egress components: Doors and Stairs:**
This chapter will enclose all information related to the egress width and specifications of doors and stairs in general, and additional information related to the different class of occupancy.
- ❖ **Means of egress components: Smoke proof enclosures, Horizontal exits:**
This chapter will enclose all information related to the specifications of smoke proof enclosures and horizontal exits in general, and additional information related to the different class of occupancy.
- ❖ **Means of egress components: Ramps, Exit passageways, Escalators and Moving walks:**
This chapter will enclose all information related to the specifications of ramps, exit passageways, escalators and moving walks in general, and additional information related to the different class of occupancy.
- ❖ **Means of egress components: Fire escape stairs, Fire escape ladders, Areas of refuge, Elevators:**
This chapter will include all information related to the specifications of fire escape stairs, fire escape ladders, areas of refuge, elevators in general, and additional information related to the different class of occupancy.
- ❖ **Means of egress specifications:**
This chapter will enclose all information concerning: The capacity, the number and the arrangement of means of egress, the measurement of travel distance to exits, the discharge from exits.
- ❖ **Illumination, Signs:**
This chapter will include all information related to the illumination of means of egress, emergency lighting, and marking of egress and special provisions for occupancies with high hazard contents.
- ❖ **Fire protection features, Fire detection and protection equipment:**
This chapter will include all features of fire protection such as construction and compartment, smoke barriers, special hazard protection, interior finish, furnishings contents. Moreover it will cover equipment of detection, and protection of fire such as smoke and heat detectors, alarms, emergency control, automatic sprinklers, manual extinguishing equipment and information related to the maintenance and testing of this equipment.