

Fire Fighting Syllabus

INTRODUCTION TO FIRE FIGHTING.

EXPLANATIONS OF NFPA CODES

- Principles and Authority

CLASSIFICATION OF FIRE (DESCRIPTION)

- Active and Passive Fire Protection System

FIRE HOSE Reel SYSTEM

- Types of fire hose reel
- Distance of operation
- Tank sizing
- Water requirement

Dry and wet Riser system

PIPE SELECTION & SIZING

- Breeching Inlet
- Water Requirement
- Location of Landing valve
- Fixing Height and requirement of Landing Valve
- Pressure calculation and Tank sizing

Stair Well Pressurization System concept.

Fire Hydrant

- Location of Fire Hydrant
- Pipe Sizing
- Water Requirement and tank sizing

Sprinkler System

- Types of Sprinklers, Pendant, Upright, Sidewall, Concealed, SIN Number

Identification, Sprinkler System Types:

- Wet pipe, Dry pipe, Pre Action, Deluge, Anti Freeze, Combined Dry Pipe and Pre Action System.
Sprinkler System Designing, Sprinkler Pipe Sizing.

Fire Fighting Hydraulic Calculation,

- Head Loss & Pump Head Calculations For High Rise Buildings.

Fire Water Pump –

- [Main Pump, Jockey Pump, & Diesel Pump] Classification, Types & Selection.

Fire Alarm System Designing.

FM200 System Designing - Water less Fire Protection System] Capacity, Pipe Sizing,

- **Types of Nozzle**

- Nozzle Selection.
- Nozzle cylinder calculation

Reference Standards: NFPA10, 13, 14, 24, 20, 2001, 11,1, TAC, NBC Codes, NBC Table No: 23 & 24



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