

Office of the State Fire Marshal Presents . . .

Residential Design

of Sprinkler Systems NFPA 13D



May 18, 19 and 20

South King County Fire and Rescue Station #26
2238 223rd St. Des Moines WA

Instructors:

Mike Friedman, National Fire Sprinkler Association
Cecil Bilbo, National Fire Sprinkler Association

Supplies Needed: NFPA 13D & engineering type calculator

Day 1

Marble Mountain Video
Principles of Combustion (From BTT)
Rules Governing Installation (From BTT)
Residential Fire Statistics
Scope of Sprinkler Standards (NFPA 13, 13R, 13D)
Components and Types of Sprinkler Systems
Types of Sprinklers (Residential, QR, EC)
Types of Piping Systems
(Stand-Alone, Multi-Purpose, Network and Special Rules)
Residential Sprinkler Spacing/Location Rules
Assign Homework (sprinkler spacing)
Introduction to Hydraulic Principles
Layout and Hydraulic Calculation of NFPA 13D Systems

Day 2

Review Previous Night's Homework
Residential Obstruction Rules, Beams,
Slopes Pockets. Etc.
Special Rules for ½ inch PEX
Pipe Configurations (Tree, Loop, Grid)
Backflow Preventers and Meters
Introduction to Hydraulic Principles
Layout and Hydraulic Calculation of NFPA
13D Systems and Workshop

Day 3

Hydraulic Calculations (from BTT)
Sample In-Class Calculation
Layout and Hydraulic Calculation of NFPA
13D Systems and Workshop
(Hydraulics w/Hazen William)

Registration Form

- There is no charge for this class
- You must register with this office to attend
- Be sure to provide your e-mail address so we can send you a confirmation

Organization/Agency: _____

Name: _____ E-mail Address: _____

Personal ID: _____ - _____ Phone Number: _____
Birth date and last 4 digits of Social Security #

Complete Mailing

Address: _____

Send this registration to: Office of the State Fire Marshal, P.O. Box 42600, Olympia WA 98504-2600 OR
E-mail: karen.jones@wsp.wa.gov OR Fax to (360)596-3934 OR, phone at (360)596-3916.