



Schedule of Events and Activities for

Fire Sprinkler Inspection Training & Certificate Program

*A joint venture between the American Fire Sprinkler Association and
Oklahoma State University School of Fire Protection & Safety Technology*

◆ Day 1

- Overview of the operations of automatic sprinklers and the following system types:
 - Wet Pipe
 - Dry Pipe
 - Single & Double Interlock Preaction
 - Deluge
 - Water Foam
 - Spray System
 - Standpipe System
- Study of the Scope and Applications of the NFPA 25 Standard.
 - Equipment specific nature of inspections.
 - System installation criteria. Issues relating to sprinkler and piping spacing and location.
 - Maintenance, a procedure required by NFPA-25. Maintenance issues relating to manufacturers recommendations and potential liabilities. Repair, a part of your maintenance agreement?
 - Inspection of common system components including piping, hangers, sprinklers, hydraulic nameplate, check valve, fire department connection, control valves, tamper switches, pressure reducing and regulating valves, strainers, back flow prevention devices.
- Laboratory & Field Session. Hands-on procedures by the students will include the following functions:
 - Wet Pipe Systems
 - Valve Positions
 - Water Flow & Tamper Alarm Operations
 - Pressure Gauge Readings
 - Main Drain Test

- Dry Pipe Systems
 - Valve Positions
 - Water & Air Gauge Readings
 - Water Flow & Air Pressure Alarms
 - Main Drain Tests
 - Priming Water Test
 - Condensation Drum Test
 - Partial Trip Test
 - Full Trip Test
 - Resetting Valves
 - Safety

◆ Day 2

- Laboratory & Field Session. Hands on procedures performed by the students will include:
 - Preaction and deluge systems:
 - Valve Positions
 - Pressure Gauge Readings
 - Main Drain Test
 - Water Flow Alarms
 - Priming Water Test
 - Trip Test
 - Resetting Deluge Valves
 - Safety
 - Restoration of Sprinkler Systems to Service
- Study and discussion of Fire Pumps
- Operation and flow of a fire pump (field test)
- Graphical analysis of fire pump test results
- Lecture and Discussion on Water Flow Tests

◆ Day 3

- Laboratory Session & Field Session
 - Water Flow Test (Hydrant)
 - Graphing & Discussion of Water Flow Test
- Classroom Session: Special Contractor Considerations
- Overview of potential pitfalls for contractors
 - Confined Space Entry
 - Understanding Emergency Generators And Automatic Transfer Switches
 - Understanding Back Flow Prevention Devices
 - Understanding Pressure Regulating Valves
 - Obstruction/Impairment Procedures.
- Professional Representation and Customer Relations.
- Classroom summary & review
- Examination

Instructional Time: 24 Hours
Continuing Education Credit: 2.4 CEUs

School of Fire Protection Instructors:
Pat D. Brock, PE, FPE
Professor – Fire Protection & Safety

Floyd Luinstra, PE
Visiting Instructor – Fire Protection & Safety

This agenda is tentative and could change based on time constraints and unforeseen obstacles