



**CHARLES D. BAKER**  
GOVERNOR

**KARYN E. POLITO**  
LIEUTENANT GOVERNOR

**MIKE KENNEALY**  
SECRETARY OF HOUSING AND  
ECONOMIC DEVELOPMENT

**Commonwealth of Massachusetts**  
**Division of Professional Licensure**  
**Office of Public Safety and Inspections**

1000 Washington Street, Suite 710  
Boston, Massachusetts 02118

**EDWARD A. PALLESCHI**  
UNDERSECRETARY OF CONSUMER  
AFFAIRS AND BUSINESS  
REGULATION

**DIANE M. SYMONDS**  
COMMISSIONER, DIVISION OF  
PROFESSIONAL LICENSURE

## Minutes

### **Bureau of Pipefitters, Refrigeration Technicians, and Sprinkler Fitters: Sprinkler Apprentice Educational Framework Subcommittee**

**Division of Professional Licensure – Tewksbury Office**  
**Old Anne Sullivan Building**  
**365 East Street**  
**Tewksbury, MA 01876**  
**November 5, 2019, 10:00 AM**

1. Meeting called to order by the Chair at 10:19 AM, followed by roll call, the Chair asked that members identify themselves and whom they represent:

**Subcommittee Members Present:**

Cesar I. Lastra, Chair  
Justin Fishlin, Pipefitter Member  
John Viola, Pipefitter Member

**Subcommittee Members Not Present:**

Julie Kelliher  
Michael MacDonnell

## **2. Subcommittee Discussion**

The Chair informed the members of the scope and objectives of the Subcommittee to develop a better working apprentice Sprinkler Fitter framework. The following handouts were provided to the Subcommittee members to assist them:

- 528 CMR: Bureau of Pipefitters & Refrigeration Technicians
- The American Fire Sprinkler Association (AFSA) Apprenticeship Training for Fire Sprinkler Fitters.
- The Bureau approved Pipefitting frameworks.
- The Bureau approved Refrigeration frameworks.

Based on the documentation provided and discussion amongst the members, the following training topics were recommended:

- Massachusetts General Law Chapter 146, and Title 528 of the Code of Massachusetts Regulations
- OSHA Training
  - Safety Certification (OSHA 30)
  - Hazard Communication Standard



- Confined Spaces
- Underground Piping
- Trenching and Excavation
- Work Element Sign Off
- Lock Out / Tag Out (LOTO)
- Hot-work Requirements and Local Permit Requirements (Spark/Ignition License)
- Interfacing between system and fire alarm
- Low voltage/basic fire alarm knowledge
- Back flow and Back flow testing
- Low Air Actuator Valve knowledge (18207-13)
- NFPA (241 Compliance and Sprinkler System Compliance with Currently Adopted Standards)
- Trouble Shooting Techniques
- Familiarity of Sprinkler System Components
- Threading, Grooving, and other Joining Method Techniques (Grooving, Flanges, Glue, Solder, Compression)
- Hangers, Supports, Restraints, Expansion Loops, Seismic Bracing, and Guides
- Trade Math (Basic & Construction)
- New Technology (Nitrogen Dry Systems, Vacuum Type Dry Systems, Air Vents, Flexible Sprinkler Attachments, etc.)
- Inspection, Testing, and Maintenance (MIC Microbiological Induced Corrosion, 5 year inspections, etc.)
- Schematics and Drawings
- Cutting Methods and Techniques
- Methods of Testing (Pressure testing, leak testing, hydrostatic testing, etc.)
- Tools (Hand and Power)
- Basic Rigging
- Material Handling
- Basic Communication and Employability Skills
- Components and Systems
- Steel Pipe
- CPVC Pipe and Fittings
- Copper Tube Systems
- Knowledge of Sprinkler Fitting Valves
- Shop Drawings
- Standard Spray Fire Sprinklers
- Wet Fire Sprinkler Systems
- Dry-Pipe Systems
- Deluge/Pre-action Systems
- Standpipes
- Water Supplies
- Fire Pumps
- Application-Specific Sprinklers and Nozzles
- System Layout
- Special Extinguishing Systems
- Foremanship, Procedures, and Documentation

The Chair informed the Subcommittee members that the draft frameworks will be presented at the next scheduled Bureau meeting.

### **3. Matter not reasonably anticipated 48 hours in advance of the meeting**

- No discussion on matters not reasonably anticipated 48 hours in advance of the meeting.

**4. Meeting adjourned at 12:00 PM.**

**List of Documents/Exhibits Used at this Meeting**

- a. 528 CMR: Bureau of Pipefitters & Refrigeration Technicians
- b. The American Fire Sprinkler Association (AFSA) Apprenticeship Training for Fire Sprinkler Fitters.
- c. The Bureau approved Pipefitting frameworks.
- d. The Bureau approved Refrigeration frameworks.