

American Society of Sanitary Engineering

Professional Qualifications Standard for

**Plumbing-Based
Residential Fire
Protection Systems
Installers & Inspectors**

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Plumbing-Based Residential Fire Protection Systems Installers and Inspectors Professional Qualifications Standard

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Plumbing-Based Residential Fire Protection Systems Installers for One- and Two-Family Dwellings

10-1.1 Scope

This standard applies to an individual who provides layout, detail, and calculations for plumbing-based residential fire protection systems for one- and two-family dwellings, and installs such systems. The standard shall not apply to the installation of stand-alone fire protection systems.

10-1.2 Purpose

The purpose of this standard is to provide minimum performance criteria, identified by industry consensus, for Plumbing-Based Fire Protection Systems Installers (“herein referred to as the “Installer”), to assure compliance with the referenced standards in Section 10-1.4.

10-1.3 Limitations

This standard applies to Installers only. Compliance with this standard in itself shall not constitute compliance with the requirements for a Plumbing-Based Fire Protection Systems Inspector. For requirements for Inspectors, see ASSE Standard 7020.

10-1.3.1 This standard shall apply to systems such as those identified in NFPA 13-D and other internationally recognized codes.

10-1.4 Reference and Industry Standards and Codes

The Reference and Industry Standards listed in ASSE Standard 7001 are a part of this standard.

10-2.1 General Knowledge

10-2.1.1 The Installer shall be able to identify and demonstrate knowledge of the applicable laws, codes, rules, listing agencies, and regulations from the federal, state and local levels pertaining to plumbing systems and plumbing-based fire protection systems.

10-2.1.2 The Installer shall be able to identify the proper procedures to notify all of the Authorities Having Jurisdiction (AHJ).

10-2.1.3 The Installer shall be able to demonstrate a knowledge of the following concepts:

- . Acceptance Testing (Rough-in and Final Inspections)
- . Anti-Freeze Systems ³ (add footnote stating: “This is for informational purposes only; and shall not be installed as part of a plumbing-based fire suppression system.”)
- . Area of Coverage / Target Area
- . Backflow Protection
- . Clearances
- . Compartments
- . Dry Systems ³ (add footnote stating: “This is for informational purposes only; and shall not be installed as part of a plumbing-based fire suppression system.”)
- . Dry Type Sprinklers
- . Elevation Losses and Friction Losses
- . Fire Dynamics and Heat Transfer
- . Flow and Pressure Demands
- . Inspection Testing and Maintenance
- . Internationally recognized model codes
- . Life Safety Protection
- . Multi-Family Dwelling
- . Multi-Purpose System
- . NFPA 13
- . NFPA 13-D
- . NFPA 13-R ³ (add footnote stating: “This is for informational purposes only; and shall not be installed as part of a plumbing-based fire suppression system.”)
- . One- and Two-Family Dwelling
- . Pipe Configurations (Tree, Branch, Loop, Network, Combination)
- . Plumbing-Based Fire Protection System
- . Quick Response Sprinklers
- . Residential Sprinklers
- . Types of Sprinklers (recessed, concealed, sidewall, pendant, upright)
- . Wet Systems