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ASSE International

Professional Qualifications Standard for

Residential Potable Water Fire Protection System Installers & Inspectors for One and Two Family Dwellings

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FOREWORD

Professional Qualifications Standard for Residential Potable Water Fire Protection System Installers & Inspectors for One and Two Family Dwellings

This foreword shall not be considered a part of the standard. However, it is offered to provide background information.

ASSE International is dedicated to the preservation of public health and safety through the use of proper plumbing and piping practices and approved materials. In 2006, the Board of Directors approved the development of a professional qualifications standard for plumbing-based fire suppression systems. The 2013 revision of the standard replaced the term "plumbing-based" with "potable water."

With the proliferation of residential fire suppression systems being installed in compliance with the National Fire Protection Association Standard (NFPA) 13D, there were requests for ASSE to develop a standard series for residential plumbing-based fire protection system installers and inspectors as part of their portfolio of Professional Qualifications Standards, which includes the ASSE/IAPMO/ANSI Series 5000, Cross-Connection Control Professional Qualifications Standard, and the ASSE/IAPMO/ANSI Series 6000, Professional Qualifications Standards for Medical Gas Systems Personnel. These standards touch the lives of people every day.

Annually, more people die in their homes due to fires than all other natural disasters combined. We face an epidemic and a residential fire protection system is a significant solution. Installing and inspecting residential fire protection systems is a tremendous responsibility because there are few second chances to do the job right. This document contains the uniform minimum requirements for qualified installers and inspectors of Residential Potable Water Fire Protection Systems for One and Two Family Dwellings.

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References

01-1.1 Reference and Industry Standards and Codes

- The following list of reference and industry standards and codes is part of the requirements of ASSE Standard 7010 and ASSE Standard 7020.
- 01-1.1.1 ASTM A53/A53M-06a, Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless
- 01-1.1.2 ASTM B32-04, Standard Specification for Solder Metal
- 01-1.1.3 ASTM B75-02, Standard Specification for Seamless Copper Tube
- 01-1.1.4 ASTM B88-03, Standard Specification for Seamless Copper Water Tube
- 01-1.1.5 ASTM B251M-97(2003), Standard Specification for General Requirements for Wrought Seamless Copper and Copper-Alloy Tube [Metric]
- 01-1.1.6 ASTM B251-02e1, Standard Specification for General Requirements for Wrought Seamless Copper and Copper-Alloy Tube
- 01-1.1.7 ASTM B813-00e1, Standard Specification for Liquid and Paste Fluxes for Soldering of Copper and Copper-Alloy Tube
- 01-1.1.8 ASTM F437-06, Standard Specification for Threaded Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 80
- 01-1.1.9 ASTM F438-04, Standard Specification for Socket-Type Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 40
- 01-1.1.10 ASTM F439-06, Standard Specification for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 80
- 01-1.1.11 ASTM F441/F441M-02, Standard Specification for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe, Schedules 40 and 80
- 01-1.1.12 ASTM F442/F442M-99(2005), Standard Specification for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe (SDR-PR)
- 01-1.1.13 ASTM F493-10, Standard Specification for Solvent Cements for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe and Fittings

- 01-1.1.14 ASTM F876-06, Standard Specification for Crosslinked Polyethylene (PEX) Tubing
- 01-1.1.15 ASTM F877-07, Standard Specification for Crosslinked Polyethylene (PEX) Plastic Hot- and Cold-Water Distribution Systems
- 01-1.1.16 AWS A5.8/A5.8M, Specification for Filler Metals for Brazing and Braze Welding
- 01-1.1.17 AWS A5.31, Type FB3-A or FB3-C Specification for Fluxes for Brazing and Braze Welding
- 01-1.1.18 CSA B137.5-05, Cross-linked Polyethylene (PEX) Tubing Systems for Pressure Applications
- 01-1.1.19 CSA B137.6-05, Chlorinated Polyvinylchloride (CPVC) Pipe, Tubing, and Fittings for Hot- and Cold-Water Distribution Systems
- 01-1.1.20 IBC-2009, International Building Code
- 01-1.1.21 IFC-2009, International Fire Code
- 01-1.1.22 IRC-2009, International Residential Code
- 01-1.1.23 NFPA 13-2010, Standard for the Installation of Sprinkler Systems
- 01-1.1.24 NFPA 13-D-2010, Standard for the Installation of Sprinkler Systems in One- and Two-Family Dwellings and Manufactured Homes
- 01-1.1.25 NFPA 13-R-2010, Standard for the Installation of Sprinkler Systems in Residential Occupancies up to and Including Four Stories in Height
- 01-1.1.26 NSF 61-2007, Drinking Water System Components, Health Effects
- 01-1.1.27 NFPA 5000-2009, Building Construction and Safety Code
- 01-1.1.28 UL 1626-2008, Residential Sprinklers for Fire-Protection Service
- 01-1.1.29 UPC-2009, Uniform Plumbing Code
- **NOTE:** All questions related to applicability shall be directed to the Authority Having Jurisdiction (AHJ).

01-1.2 Abbreviations and Standards Development Organizations

	1 0
ANSI	American National Standards Institute, 25 W 42nd Street, 4th Floor, New York, NY 10036
ASSE	American Society of Sanitary Engineering, 901 Canterbury Road, Suite A, Westlake, Ohio 44145
ASTM	ASTM International, 100 Barr Harbor Drive, West Conshohocken, PA 19428
AWS	American Welding Society, 8669 Doral Boulevard, Suite 130, Doral, FL 3316
CSA	CSA Group, 5060 Spectrum Way, Suite 100, Mississauga, Ontario, L4W 5N6, Canada
IAPMO	International Association of Plumbing and Mechanical Officials, 5001 E Philadelphia Street, Ontario, CA 91761
ICC	International Code Council, 500 New Jersey Avenue, 6th floor, Washington, DC 20001
NFPA	National Fire Protection Association, P.O. Box 9101, 1 Batterymarch Park, Quincy, MA 02269
NSF	NSF International, 789 N Dixboro Road, Ann Arbor, MI 48113
UL	Underwriters Laboratories, 2600 NW Lake Road, Cama, WA 98607