American National Standard

ASSE/IAPMO/ANSI Series 27000-2022

Professional Qualifications Standard for

Hybrid Fire Extinguishing Systems Personnel

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TABLE OF CONTENTS

Professional Qualifications Standard for Hybrid Fire Extinguishing Systems Personnel

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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 life safety through the use of proper piping practices and approved materials. In 2015 ASSE International completed the development of a Professional Qualifications Standard for technicians involved in the inspection, testing, and maintenance of water-based fire protection systems. The ASSE Series 15000 establishes minimum knowledge and performance criteria for the qualified individual who provides inspection, testing and maintenance for water-based fire protection systems for compliance with installation, inspection, testing and maintenance standards.

In 2020 the ASSE Board of Directors approved the development of a Professional Qualifications Standard to meet the design, installation and inspection, testing, and maintenance requirements of NFPA Standard 770 for Hybrid (Water and Inert Gas) Fire-Extinguishing Systems.

The ASSE Series 27000 includes 3 standards, each of which establish minimum knowledge and performance criteria, for those who have an active role in designing; installing; and inspecting, testing, and maintaining these hybrid fire extinguishing systems. These special hazard systems require specialized education and training to design, install, service and maintain. The ASSE 27000 standard sets the minimum criteria to ensure through certification these professional individuals meet the requirements of NFPA 770.

The ASSE Series 27000 joins 12 other ASSE Professional Qualification Standards that help to protect the health and safety of people everywhere.

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References

1-1.1 Reference and Industry Standards and Codes

The following list of reference and industry standards and codes is part of the requirements of ASSE Standard 27010.

1) NFPA 1 2021, *Fire Code*

2) NFPA 3 2021, *Standard for Commissioning of Fire Protection and Life Safety Systems*

3) NFPA 4 2021, *Standard for Integrated Fire Protection and Life Safety System Testing*

4) NFPA 13, *Standard for the Installation of Sprinkler Systems*, 2019 edition

5) NFPA 70, *National Electrical Code*, 2020 edition

6) NFPA 72, *National Fire Alarm and Signaling Code*, 2019 edition

7) NFPA 750, *Standard on Water Mist Fire Protection Systems*, 2019 edition

8) NFPA 770 *Standard on Hybrid (Water and Inert Gas) Fire-Extinguishing Systems*, 2021 edition

9) NFPA 2001, *Standard on Clean Agent Fire Extinguishing Systems*, 2018 edition

10) ANSI Z535.2, *Standard for Environmental and Facility Safety Signs*, 2011, Reaffirmed 2017

11) ASME B1.20.1, *Pipe Threads, General Purpose, Inch*, 2013

12) ASME B31.1, *Power Piping*, 2018

13) ASTM *Boiler and Pressure Vessel Code*, 2017

14) ASTM A53/A53M, *Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless*, 2018

15) ASTM A106/A106M, *Standard Specification for Seamless Carbon Steel Pipe for High-Temperature Service*, 2018

16) ASTM A269/A269M, *Standard Specification for Seamless and Welded Austenitic Stainless Steel Tubing for General Service*, 2015a

17) ASTM A312/A312M, *Standard Specification for Seamless, Welded, and Heavily Cold Worked Austenitic Stainless-Steel Pipes*, 2018

18) ASTM A632, *Standard Specification for Seamless and Welded Austenitic Stainless Steel Tubing (Small-Diameter) for General Service*, 2004, Reapproved 2014

19) ASTM A778/A778M, *Standard Specification for Welded, Unannealed Austenitic Stainless Steel Tubular Products*, 2016

20) ASTM A789/A789M, *Standard Specification for Seamless and Welded Ferritic/Austenitic Stainless-Steel Tubing for General Service*, 2018

21) ASTM B75/B75M, *Standard Specification for Seamless Copper Tube*, 2011

22) ASTM B88, *Standard Specification for Seamless Copper Water Tube*, 2016

23) ASTM B251/B251M, *Standard Specification for General Requirements for Wrought Seamless Copper and Copper-Alloy Tube*, 2017

24) CGA C-6, *Standard for Visual Inspection of Steel Compressed Gas Cylinders*, 2013

25) ISO 7-1, *Pipe Threads Where Pressure-tight Joints are Made on the Threads* — Part 1: *Dimensions, Tolerances and Designations*, 1994 Reconfirmed 2015.

26) Title 29, *Code of Federal Regulations*, Part 1910, "*Occupational Safety and Health Standards*."