

ARIZONA REGISTRAR OF CONTRACTORS

C-16 (CR-16) FIRE PROTECTION SYSTEMS (COMMERCIAL)

SCOPE OF WORK

Installation, alteration and repair of fire protection systems using water, steam, gas or chemicals. Included is any required excavation, trenching, backfilling and grading, piping from structure and connections to off-premise water supply adjacent to property involving a fire protection system. Systems may include the following areas of work and related equipment: restaurant hood protection systems; fire pumps and drivers; pressure and storage tanks; all piping and valves; sprinkler heads and nozzles; and application of materials for the prevention of corrosion or freezing. Also included are air compressors, air receivers, bottled inert gases, pressurized chemicals, manifolds, pneumatic, hydraulic or electronic controls, low voltage signaling systems, control piping and the flushing and testing of systems.

Examination	# of Questions	Minimum Passing Score	Time Allowed
CR-16	75	70%	180 Minutes

CONTENT OUTLINE

Subject Area	# of Items
Backflow Prevention	6
Firepumps and Standpipes	6
Sprinkler Systems	16
Water Supply and Distribution	10
Testing and Inspection	1
Clean Agents and Alternative Systems	8
Foam Systems	3
Wet Chemical Systems	5
Dry Chemical Systems	5
Carbon Dioxide Systems	2
Portable Fire Extinguishers	2
Commercial Kitchen Equipment	6
Heat and Smoke Detectors	5

REFERENCE LIST

To find reference materials, you may use the link provided or search for the material online via a search engine such as Google. You may also go to PSI's online store at www.psionlinestore.com.

The reference material listed below was used to prepare the questions for this examination. The examination may also contain questions based on trade knowledge or general industry practices. **Except for Code books**, you can base your answers on later editions of references as they become available. For Code questions, the examinations will be based **only** on the edition of the Code book that is listed.

Candidates may use a silent, nonprinting, non-programmable calculator in the examination center.

The following reference material is allowed in the examination center:

International Plumbing Code, 2018, International Code Council, (800) 786-4452, www.iccsafe.org

International Residential Code for One- and Two-Family Dwellings, 2018, International Code Council, (800) 786-4452, www.iccsafe.org

NFPA 10 - Standard for Portable Fire Extinguishers, 2007, National Fire Protection Association, 1 Batterymarch Park, P.O. Box 9101, Quincy, MA 02269-9101, www.nfpa.org

NFPA 11: Standard for Low-, Medium-, and High-Expansion Foam. (2005 or 2016). National Fire Protection Association, www.nfpa.org

NFPA 12: Standard on Carbon Dioxide Extinguishing Systems. (2008 or 2015). National Fire Protection Association, www.nfpa.org

NFPA 12A: Standard on Halon 1301 Fire Extinguishing Systems. (2009 or 2015). National Fire Protection Association, www.nfpa.org

NFPA 13 - Installation of Sprinkler Systems, 2016, National Fire Protection Association, www.nfpa.org

NFPA 14 - Installation of Standpipe, Private Hydrant, and Hose Systems, 2007 or 2013, National Fire Protection Association, www.nfpa.org

NFPA 17: Standard for Dry Chemical Extinguishing Systems. (2009 or 2013). National Fire Protection Association, www.nfpa.org

NFPA 17A: Standard for Wet Chemical Extinguishing Systems. (2009 or 2013). National Fire Protection Association, www.nfpa.org

NFPA 2001 - Standard for Clean Agent Fire Extinguishing Systems, 2008 or 2015, National Fire Protection Association, www.nfpa.org, www.nfpa.org

NFPA 24 - Installation of Private Fire Service Mains and Their Appurtenances, 2007 or 2010, National Fire Protection Association, www.nfpa.org

NFPA 25: Inspection, Testing and Maintenance of Water-Based Fire Protection Systems, 2008 or 2014, www.nfpa.org

NFPA 72 - National Fire Alarm Code, 2016, National Fire Protection Association, National Fire Protection Association, www.nfpa.org

NFPA 96: Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations, 2008 or 2014, National Fire Protection Association, www.nfpa.org

Uniform Plumbing Code, 2015, 25th Edition, International Association of Plumbing and Mechanical Officials (IAPMO), www.iapmo.org

Candidates are responsible for bringing their own references to the examination center. Reference materials may be highlighted, underlined, annotated and/or indexed prior to the examination session. However, references may not be written in during the examination session. Any candidate caught writing, highlighting, underlining and/or indexing in the references during the examination will be reported to the Arizona Registrar of Contractors. Furthermore, candidates are not permitted to bring in any additional papers (loose or attached) with their approved references. References may be tabbed/indexed with permanent tabs only. (permanent tabs are defined as tabs that would tear the page if removed). Temporary tabs, (defined as Post-It notes, or other tabs that may be removed without tearing the page) are not allowed and must be removed from the reference before the exam will begin. If you are downloading from the Internet, you may bring this reference into the testing center with you as long as it is bound. You can have it spiral bound or you may hole-punch it and put it in a binder.

