

ARIZONA REGISTRAR OF CONTRACTORS

R-39R/C-39 (CR-39) AIR CONDITIONING AND REFRIGERATION (RESIDENTIAL/COMMERCIAL)

# of Questions	Minimum Passing Score	Time Allowed
80	70%	210 Minutes

CONTENT OUTLINE

Subject Area	# of Items
Refrigeration	12
Air Conditioning	12
Warm Air Heating	12
Controls and Motors	8
Boilers	4
Ventilation	4
Evaporative Coolers	4
Fuel Piping Systems	5
Water Piping Systems	5
Steam, Hot, Chilled, and Condensing Water	5
Testing, Balancing, and Inspections	5
Sizing and Estimating	4

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:

Code of Federal Regulations - 29 CFR Part 1926 (OSHA), with latest available amendments, U.S. Government Printing Office, (866) 512-1800 or <http://www.access.gpo.gov/nara/cfr/table-search.html>

OR

Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI, with latest available amendments, 3210 E Tropicana, Las Vegas, NV 89121, (800) 733-9267, www.psionlinestore.com (See order form at the end of the Candidate Information Bulletin.)

International Fuel Gas Code, 2018 Edition, International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478-5795, www.iccsafe.org

International Mechanical Code, 2018 Edition, International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478-5795, www.iccsafe.org

The following reference material is not allowed in the examination center:

Modern Refrigeration and Air Conditioning, Althouse, Turnquist, Bracciano, 19th or 20th Edition, Goodheart-Willcox, www.g-w.com

Low Pressure Boilers, Frederick M. Steingress, Daryl R. Walker, 2009 or 2013, American Technical Publishers, Inc., (800) 323-3471, www.atplearning.com

ACCA Manual D, 2009, Air Conditioning Contractors of America, 2009, 2800 Shirlington Road, Suite 300. Arlington, VA 22206, 888-290-2220, www.acca.org

ACCA Ductulator, Air Conditioning Contractors of America, <http://www.acca.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.

