

# COMMONWEALTH OF VIRGINIA REFRIGERATION CONTRACTING EXAMINATION

**Scope of Work:** "Refrigeration Contracting" (Abbr: REF) means that service which provides for installation, repair, or removal of any refrigeration equipment (excluding HVAC equipment). No electrical, plumbing, gas fitting, or HVAC functions are provided by this specialty. This specialty is intended for those contractors who repair or install coolers, refrigerated casework, ice-making machines, drinking fountains, cold room equipment, and similar hermetic refrigeration equipment. The HVAC classification also provides for this function.

# of Questions	Minimum Passing Score	Time Allowed
50	70% (35 correct)	120 Minutes

### CONTENT OUTLINE

Subject Area	# of Items
General Knowledge and Requirements	16
Refrigeration Piping	10
Refrigerants	5
Refrigeration Systems and Controls	12
Testing and Inspection	7

### EXAMINATION REFERENCE MATERIAL

The following is a list of possible reference materials for the examination. The list is given to identify resources and does not constitute an endorsement by PSI or by the Virginia Department of Professional and Occupational Regulation.

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. You can use any edition of references and Code books as they become available. However, for Code questions, the examination will be based only on the edition of the Code book that is listed.

NOTE: All examinations are open-book. You must bring your own references as they are not provided at the test site. No study guides are permitted.

No loose papers or unbound references are permitted. If you download a reference from the Internet, it must be spiral bound or hole-punched and placed in a binder or stapled in the left-hand corner.

References may be highlighted, underlined, and/or indexed prior to the exam. Reference materials containing any writing will not be allowed into the examination. You may not write in reference materials during the examination session.

A candidate caught writing in the references during the examination will have the references confiscated and will be reported to the Department.

References may be tabbed with permanent tabs only. NO REMOVABLE TABS are allowed.

The following list of tabs may be used. These items may be purchased at local office supply stores.

#### **Acceptable Tabs**

Avery Swift Tabs Self-Adhesive Permanent Plastic Tabs  
Redi-Tag Self-Stick Permanent Adhesive Index Tabs

#### **Unacceptable Tabs**

Post-It Index Flags  
Post-It Flags

The URL listed for each reference is generated from the most current searches. However placement of material on websites may be modified resulting in some discrepancies. If you are unable to find the reference under the URL listed, it is recommended that you search online via a search engine (e.g., Google).

- *Modern Refrigeration and Air Conditioning*, 19<sup>th</sup> edition, 2014, Goodheart-Willcox Company, Inc., 18604 West Creek Drive, Tinley Park, IL 60477-6243, <https://www.amazon.com/Modern-Refrigeration-Conditioning-Andrew-Althouse/>
- *International Mechanical Code*, 2015 or 2018, International Code Council, 800-786-4452, <http://shop.iccsafe.org>
- **Starting September 1<sup>st</sup>, 2023:** *International Mechanical Code*, 2018, International Code Council, 800-786-4452, <http://shop.iccsafe.org>

