

License Information

Scope – Tests a candidate’s knowledge of the installation, maintenance, repair, fabrication, alteration, and extension of commercial air conditioning, warm air heating, ventilation, duct systems, and related appurtenances unlimited in horsepower or tonnage.

Examination Outline

Open Book

100 Questions – 4 hour time limit

70% Correct required to pass

Exam Topic	%
HARV General	25
Warm Air Heating	15
Ventilation	15
Controls	15
Piping	15
Insulation	5
Load Calculations	5
Safety	5

References

The following references **are allowed** in the testing center.

1. *Code of Federal Regulations, Title 29, Part 1926 (OSHA)*, 2006, Superintendent of Documents, P.O. Box 371954, Pittsburgh, PA 15250-7954, www.access.gpo.gov.
2. *OSHA Excerpts for Contractors*, Fourth Edition, Prometric, www.prometric.com.
3. *NFPA 58 – Standard for the Storage and Handling of Liquefied Petroleum Gases (LP Gas Code)*, 2004 Edition. National Fire Protection Association, 1 Batterymarch Park, P.O. Box 9101, Quincy, MA 02269-9101, www.nfpa.org.
4. *Uniform Mechanical Code*, 2006, IAPMO – International Association of Plumbing and Mechanical Officials, 5001 E. Philadelphia Street, Ontario, CA 91761-2816, www.iapmo.org.
5. *Manual N – Commercial Load Calculation*, Fourth Edition, 1988, Air Conditioning Contractors of America, 2800 Shirlington Road, Suite 300, Arlington, VA 22206, www.acca.org.

6. *TRANE Air Conditioning Manual*, Revised Edition, 1996, TRANE Company, c/o Inland Marketing Services, 3030 Airport Road, La Crosse, WI 54603, www.trane.com/bookstore.
7. *ACCA Duct Slide Rule*, Air Conditioning Contractors of America, 2800 Shirlington Road, Suite 300, Arlington, VA 22206, www.acca.org.
8. *TRANE Ductulator*, TRANE Company, c/o Inland Marketing Services, 3030 Airport Road, La Crosse, WI, 54603, www.trane.com/bookstore.

The following references were used to create exam questions but **are not allowed** in the testing center.

1. *Modern Refrigeration and Air Conditioning*, Eighteenth Edition, 2004, Goodheart-Willcox Company, Inc., 18604 West Creek Drive, Tinley Park, IL 60477-6243, www.g-w.com.
2. *Pipefitters Handbook*, Third Edition, 1967, Industrial Press, Inc., 989 Avenue of the Americas, New York, NY 10018, www.industrialpress.com

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