

License Information

Scope- Tests a candidate's knowledge of the design, installation, maintenance, repair, fabrication, alteration, and extension of air conditioning, refrigeration, heating, ventilation, duct systems, piping vessels, insulation, and related appurtenances within a complete system, limited to 25 tons cooling and 500,000 BTU heating.

Examination Outline

Open Book

100 Questions – 4-1/2-hour time limit

70% Correct Required to Pass

SUBJECT AREA	PERCENTAGE
HARV GENERAL	25
WARM AIR – FUEL GAS SYSTEMS	16
CONTROLS	16
VENTILATION	15
PIPING	12
LOAD CALCULATIONS	8
INSULATION	5
SAFETY	3

References

The following special devices ARE allowed in the testing center in addition to the standard allowable test center devices:

ACCA Ductulator, Air Conditioning Contractors of America, 2800 Shirlington Road, Suite 300, Arlington, VA 22206.

TRANE Ductulator, TRANE Company, c/o Inland Marketing Services, 3030 Airport Road, La Crosse, WI, 54603.

The following references ARE allowed in the testing center:

Uniform Mechanical Code, 2003 Edition, IAPMO – International Association of Plumbing and Mechanical Officials, 5001 E. Philadelphia St., Ontario, CA 91761-2816.

NFPA 58 - Standard for the Storage and Handling of Liquefied Petroleum Gases, 2001 Edition, National Fire Protection Association, 1 Batterymarch Park, P.O. Box 9101, Quincy, MA 02269-9101.

NFPA 31 - Standard for the Installation of Oil Burning Equipment, 2001 Edition, National Fire Protection Association, 1 Batterymarch Park, P.O. Box 9101, Quincy, MA 02269-9101.

Manual J – Residential Load Calculation, Eighth Edition, 2002, Air Conditioning Contractors of America, 2800 Shirlington Road, Suite 300, Arlington, VA 22206.

Manual D – Residential Duct Systems, 1995 Edition, Air Conditioning Contractors of America, 2800 Shirlington Road, Suite 300, Arlington, VA 22206.

OSHA Excerpts for Contractors, Fourth Edition, 2003, Prometric, 1260 Energy Lane, St. Paul, MN 55108.

Carrier System Design Manual-Part III: Piping Design, Carrier, 1960 Edition, Carrier Air Conditioning Company, Literature Distribution, Bldg. TR-2, Syracuse, NY 13221-4804.

The following references have been used to create exam questions but are NOT allowed in the testing center:

Modern Refrigeration and Air Conditioning, Eighteenth Edition, 2004, Goodheart-Willcox Company, Inc., 18604 West Creek Drive, Tinley Park, IL 60477-6243.

Pipefitters Handbook, Third Edition, 1967, Industrial Press, Inc., 200 Madison Avenue, New York, NY 10016.

For information on how to obtain examination references, please call toll-free 877.624.2562.

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