

## License Information

**Scope-** Tests a candidate's knowledge of the 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*, 2000 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.

*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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