

## 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 – Four-hour time limit**

**70% Correct Required to Pass**

| SUBJECT AREA      | PERCENTAGE |
|-------------------|------------|
| 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.

### **AND/OR Candidates may use**

- OSHA Excerpts for Contractors*, Fourth Edition, Prometric, 1260 Energy Lane, St. Paul, MN 55108.
2. *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.
3. *Uniform Mechanical Code*, 2006, IAPMO – International Association of Plumbing and Mechanical Officials, 5001 E. Philadelphia Street, Ontario, CA 91761-2816, www.iapmo.org.
4. *Manual N – Commercial Load Calculation*, Fourth Edition, 1988, Air Conditioning Contractors of America, 2800 Shirlington Road, Suite 300, Arlington, VA 22206, www.acca.org.
5. *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.

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

*The following references have been 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.

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

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