

## License Information

**Scope-** Tests a candidates knowledge of the design, installation, maintenance, repair, fabrication, alteration, and extension of heating, duct systems, and related appurtenances, including hot water, low pressure steam, and warm air furnace systems.

## Examination Outline

### Open Book

**60 Questions – 3-1/2-hour time limit**  
**70% Correct Required to Pass**

SUBJECT AREA	PERCENTAGE
HARV GENERAL	18
HEATING – WARM AIR – LOW PRESSURE BOILERS	18
VENTILATION	14
CONTROLS	14
FUEL GAS SYSTEMS	13
PIPING	13
LOAD CALCULATIONS	10

## References

*The following special device IS 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.

*The following references ARE allowed in the testing center:*

*International Mechanical Code*, 2003 Edition, International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478-5795.

*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 N – Commercial Load Calculation*, Fourth Edition, 1988, Air Conditioning Contractors of America, 2800 Shirlington Road, Suite 300, Arlington, VA 22206.

*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.

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

*International Fuel Gas Code*, 2003 Edition, International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478-5795.

*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.

*Low Pressure Boilers*, 2001 Edition, American Technical Publishers (ATP), 1155 West 175<sup>th</sup> Street, Homewood, IL 60430-4600.

*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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