

## License Information

**Scope** – Tests a candidate’s knowledge of the 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 – Three-hour time limit**  
**75% Correct required to pass**

Exam Topic	%
HARV General	18
Warm Air, Low Pressure Boiler, Oil Burners	18
Ventilation	14
Controls	14
Fuel Gas Systems	13
Piping	13
Load Calculations	10

## References

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

1. *Uniform Mechanical Code*, 2006, IAPMO - International Association of Plumbing and Mechanical Officials, 5001 E. Philadelphia St., Ontario, CA 91761, [www.iapmo.org](http://www.iapmo.org).
2. *NFPA 31 – Standard for the Installation of Oil Burning Equipment*, 2006 Edition, National Fire Protection Association, 1 Batterymarch Park, P.O. Box 9101, Quincy, MA 02269-9101, [www.nfpa.org](http://www.nfpa.org).
3. *Manual J – Residential Load Calculation*, Eighth Edition, 2002, Air Conditioning Contractors of America, 2800 Shirlington Road, Suite 300, Arlington, VA 22206, [www.acca.org](http://www.acca.org).
4. *Manual N – Commercial Load Calculation*, Fifth Edition, 2008, Air Conditioning Contractors of America, 2800 Shirlington Road, Suite 300, Arlington, VA 22206, [www.acca.org](http://www.acca.org).
5. *ACCA Duct Slide Rule*, Air Conditioning Contractors of America, 2800 Shirlington Road, Suite 300, Arlington, VA 22206, [www.acca.org](http://www.acca.org).

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

1. *Low Pressure Boilers*, Third Edition, 2008, American Technical Publishers (ATP), 1155 West 175<sup>th</sup> Street, Homewood, IL 60430-4600, [www.go2atp.com](http://www.go2atp.com).
2. *Modern Hydronic Heating for Residential and Light Commercial Buildings*, Second Edition, 2004, Delmar Learning, P.O. Box 6904, Florence, KY 41022.
3. *Modern Refrigeration and Air Conditioning*, 18th Edition, 2004, Goodheart-Willcox Company, Inc., 18604 West Creek Drive, Tinley Park, IL 60477-6243, [www.g-w.com](http://www.g-w.com).

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