

## License Information

**Scope** – Tests a candidate's 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**

**75% Correct required to pass**

Exam Topic	%
HVAC/R General	14
Heating-Warm Air-Low Pressure Boilers	18
Ventilation	14
Controls	14
Fuel Gas Systems	13
Piping	13
Load Calculations	10
Safety	5

## References

**NOTE:** The following references were used to develop this exam. With the exception of the Code books, you may use newer editions of references as they become available at your own discretion. However, newer editions may or may not contain applicable information to the content on the exam. You assume the risk of using a more current reference than that listed below. In regards to Code books, **only** the edition of the Code book listed below will be allowed into the test site.

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

1. *International Fuel Gas Code*, 2009, International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478-5795, [www.iccsafe.org](http://www.iccsafe.org).
2. *International Mechanical Code*, 2009, International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478-5795, [www.iccsafe.org](http://www.iccsafe.org).
3. *29 CFR 1926 OSHA Construction Industry Regulations*, July 1, 2009, MANCOMM, 315 West 4<sup>th</sup> Street, Davenport, IA 52801.
4. *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. *Code of Federal Regulations*, Title 29, Part 1926 (OSHA), July 1, 2009, Superintendent of Documents, P.O. Box 371954, Pittsburgh, PA 15250-7954, [www.access.gpo.gov](http://www.access.gpo.gov).
2. *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).
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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