

# Master Unlimited Air Conditioning

Catalog Number: C31025  
Exam Number: 914812  
Effective Date: 01/02/13

## License Information

**Scope** – Tests a candidate’s knowledge of the design, installation, maintenance, repair, fabrication, alteration, and extension of air conditioning, refrigeration, piping vessels, warm air heating, low and high pressure boilers, ventilation systems, duct systems, insulation, and related appurtenances within a complete system unlimited in horsepower or tonnage.

## Examination Outline

**Open Book**  
**100 Questions – Four-hour time limit**  
**70% Correct required to pass**

Exam Topic	%
HVAC/R General	20
Low and High Pressure Boilers	10
Warm Air Heating	10
Ventilation	15
Controls	10
Piping	10
Gas Piping	10
Load Calculations	5
Insulation	5
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*, 2012 Edition, International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478-5795, [www.iccsafe.org](http://www.iccsafe.org).
2. *International Mechanical Code*, 2012 Edition, International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478-5795, [www.iccsafe.org](http://www.iccsafe.org).

3. *1926 OSHA Construction Industry Regulations*, 2012 Edition, MANCOMM, 315 West 4<sup>th</sup> Street, Davenport, IA 52801. [www.mancomm.com](http://www.mancomm.com)
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, 2011, Superintendent of Documents, P.O. Box 979054, St. Louis, MO 63197. For online CFR: <http://bookstore.gpo.gov>.
2. *Low Pressure Boilers*, Third Edition, 2008, American Technical Publishers (ATP), 1155 West 175<sup>th</sup> Street, Homewood, IL 60430, [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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