

License Information

Scope – Tests a candidate's knowledge of the design, installation, maintenance, repair, fabrication, alteration, and extension of air conditioning, refrigeration, heating, ventilation, duct systems, piping vessels, insulation, and related appurtenances within a complete system, limited to 25 tons cooling and 500,000 BTU heating.

Examination Outline**Open Book****100 Questions****Time limit: 3 hours and 50 minutes****70% Correct required to pass**

Exam Topic	%
HARV General	15
Air Conditioning and Refrigeration	15
Fuel Gas Systems	15
Ventilation and Sheet Metal	15
Controls	14
Piping	10
Load Calculations	8
Insulation	4
Safety	4

References

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

1. *Code of Federal Regulations, Title 29, Part 1926* (OSHA), Revision July 1, 2008, Superintendent of Documents, P.O. Box 371954, Pittsburgh, PA 15250-7954, www.access.gpo.gov.
2. *2007 Florida Building Code: Building Volume*, 2008, International Code Council (ICC), 4051 West Flossmoor Road, Country Club Hills, IL 60478-5795, www.iccsafe.org.
3. *2007 Florida Building Code: Fuel Gas Volume*, 2008, International Code Council (ICC), 4051 West Flossmoor Road, Country Club Hills, IL 60478, www.iccsafe.org.
4. *Florida Building Code: Mechanical Volume*, 2008, International Code Council (ICC), 4051 West Flossmoor Road, Country Club Hills, IL 60478-5795, www.iccsafe.org.
5. *ACCA Duct Slide Rule*, Air Conditioning Contractors of America, 2800 Shirlington Road, Suite 300, Arlington, VA 22206, www.acca.org.

6. *Fibrous Glass Duct Construction Standards*, Fifth Edition, 2002, North American Insulation Manufacturers Association (NAIMA), 44 Canal Center Plaza, Suite 310, Alexandria, VA 22314, www.naima.org.
7. *HVAC Duct Construction Standards – Metal and Flexible*, Third Edition, 2005, SMACNA – Sheet Metal and Air Conditioning Contractors National Association, 4201 Lafayette Center Drive, Chantilly, VA 20151, www.smacna.org.
8. *Manual J – Residential Load Calculation*, Eighth Edition, 2002, Air Conditioning Contractors of America, 2800 Shirlington Road, Suite 300, Arlington, VA 22206, www.acca.org.
9. *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.
10. *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 exam references, please call toll-free 877.624.2562.

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