

Journeyman Unlimited Air Conditioning

Catalog Number: F31633
Exam Number: 925654
Effective Date: 06/15/12

License Information

Scope – Tests a candidate's knowledge of the installation, maintenance, repair, fabrication, alteration, and extension of air conditioning, refrigeration, piping vessels, warm air heating, low 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

Time limit: 3 hours and 50 minutes

75% Correct required to pass

Exam Topic	%
HARV General	20
Air Conditioning	16
Ventilation	14
Heating – Warm Air & Low Pressure Boilers	12
Controls	12
Fuel Gas	12
Piping	10
Insulation	4

References

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

1. *2010 Florida Building Code: Fuel Gas Volume*, 2010, International Code Council (ICC), 4051 West Flossmoor Road, Country Club Hills, IL 60478, www.iccsafe.org.
2. *2010 Florida Building Code: Mechanical Volume*, 2010, International Code Council (ICC), 4051 West Flossmoor Road, Country Club Hills, IL 60478, www.iccsafe.org.
3. *ACCA Duct Slide Rule*, Air Conditioning Contractors of America, 2800 Shirlington Road, Suite 300, Arlington, VA 22206, www.acca.org.

4. *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.
5. *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.
6. *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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Mechanical Journeyman - MBE1V
Volusia County

Scope

An individual holding a Mechanical Journeyman Card is defined as a person who installs, repairs, maintains, or alters air conditioning, sheet metal, or process piping systems of any size or capacity under the supervision of an Unlimited Mechanical Contractor, Air Conditioning A, Air Conditioning B or Sheet Metal Contractor.

Examination Content Outline

The Mechanical Journeyman examination is based on trade-specific information pertaining to materials, tools, equipment, practices, terminology, and relevant laws. The examination is a three (3) hour, open book exam that consists of 75 questions.

Subjects:	No. of Items
Code Compliance	10
Fuel Gas	5
Ductwork - Systems and Sizing	7
Load Calculations	5
Boilers	5
General	5
Maintenance and Service	10
Controls	10
Piping	8
Insulation	5
Psychometrics	5
Total:	75

Approved References

1. **Florida Building Code (Mechanical)**, 2014
2. **Florida Building Code (Chapter 13, Florida Energy Efficiency for Building Construction)**, 2014
3. **Florida Building Code (Fuel Gas)**, 2014
4. **Modern Refrigeration and Air Conditioning**, 18th ed., 2004
5. **ACCA Ductulator or Trane Ductulator**
6. **HVAC Duct Construction Standards, Metal and Flexible**, 3rd edition, 2005
7. **NFPA 54 – National Fuel Gas Code**
8. **Code of Federal Regulations – Title 29, Part 1926 (OSHA)**, 2010
9. **Plumbing Technology; Design and Installation**, 1994 2nd Ed., Lee Smith
10. **Refrigeration and Air Conditioning**, 3rd ed.
11. **Architectural Sheet Metal Manual**, 7th ed., 2012
12. **Florida Building Code (Building)**, 2014

Journeyman Air Conditioning

ProV

Qualified to install, maintain, repair, alter, fabricate or extend air conditioning, refrigeration systems, piping vessels, warm air heating, low pressure boilers, ventilation systems, duct systems, insulation, and related appurtenances within a complete system unlimited in horsepower or tonnage.

Number of Questions 100

Time allowed (hours) 3

Subject Area	# Quest.
General Knowledge	22
Piping	10
Systems & Sizing	24
Equipment	11
Maintenance	28
Plan Reading	5

References

Advanced Mechanical Study Guide , 2013. ISBN: 978-1-269-09518-1. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at www.provbookstore.com.

Florida Building Code 5th edition - Building , 2014. ISBN: Item #:5601L14. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478. Available at www.iccsafe.org.

Florida Building Code 5th edition -Mechanical , 2014. ISBN: Item #:5631L14. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478. Available at www.iccsafe.org.

HVAC Basics for Contractors, 2nd Edition , 2013. ISBN: 978-1-269-23865-6. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at www.provbookstore.com.

Intermediate Mechanical Study Guide , 2013. ISBN: 978-1-269-09524-2. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at www.provbookstore.com.