

**License Information**

**Scope** – Tests a candidate’s knowledge of the design, plan, installation, repair, alteration, and maintenance of electric conductors, raceways, and equipment for light, heat, and power.

**Examination Outline****Open Book****100 Questions - Four-hour time limit****75% Correct required to pass**

| Exam Topic                   | %  |
|------------------------------|----|
| General Electrical Knowledge | 10 |
| Wiring and Protection        | 25 |
| Wiring Methods and Materials | 20 |
| Equipment for General Use    | 20 |
| Special Occupancies          | 10 |
| Special Equipment            | 5  |
| Special Conditions           | 5  |
| Communication Systems        | 5  |

**References**

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

1. *Alternating Current Fundamentals, Seventh Edition*, 2006, Delmar Learning, P.O. Box 6904, Florence, KY 41022, [www.delmarlearning.com](http://www.delmarlearning.com).
2. *Mike Holt’s Illustrated Guide to Basic Electrical Theory*, Third Edition, 2008, Mike Holt Enterprises, Inc., 3604 Parkway Boulevard, Suite 3, Leesburg, FL 34748, [www.NECcode.com](http://www.NECcode.com).
3. *NFPA 70 National Electrical Code*, 2008 Edition, National Fire Protection Association, 1 Batterymarch Park, P.O. Box 9101, Quincy, MA 02269-9101, [www.nfpa.org](http://www.nfpa.org).
4. *Printreading Based on the 2008 National Electrical Code (NEC)*, 2008 Edition, American Technical Publishers (ATP), 1155 West 175th Street, Homewood, IL 60430-4600, [www.go2atp.com](http://www.go2atp.com).

For information on how to obtain exam references, please call toll-free 877.624.2562.

**Copyrighted Exam Questions**

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**Unlimited Master Electrical Contractor - EAE1V**  
Volusia County

**Scope**

In order for an applicant to be eligible to receive certification from the board as a Master Electrician the applicant must demonstrate that the applicant possesses the skill, knowledge, ability and experience to install, maintain, design, repair, alter, extend and construct electrical systems, fire alarm systems, and all appurtenances, equipment, and apparatus used in connection therewith in accordance with the building code and all other applicable codes and regulations, and to supervise and direct other persons who engage in such activities.

**Examination Content Outline**

The Unlimited Master Electrical Contractor examination is based on trade-specific information pertaining to materials, tools, equipment, practices, terminology, and relevant laws. The examination is a four (4) hour, open book exam that consists of 100 questions.

| <b>Subjects:</b> | <b>No. of Items</b> |
|------------------|---------------------|
| General Theory   | 16                  |
| Chapter 1        | 10                  |
| Chapter 2        | 8                   |
| Chapter 3        | 12                  |
| Chapter 4        | 16                  |
| Chapter 5        | 6                   |
| Chapter 6        | 8                   |
| Chapter 7        | 4                   |
| Chapter 8        | 4                   |
| Chapter 9        | 6                   |
| Safety           | 10                  |
| Total:           | 100                 |

**Approved References**

1. NFPA 70 - **National Electrical Code**, 2008
2. **Code of Federal Regulations – Title 29, Part 1926** (OSHA), 2003
3. **American Electricians Handbook**, 1996, 13th edition, Croft/Summers
4. **Ugly's Electrical References**, 2002, Hart
5. **Industrial Motor Control**, 1999, Herman

## **Master Electrician 2008**

Those who have the knowledge and skill, to install, repair, alter, add to or change any electrical wires, fixtures, appliances, apparatus, raceways, conduit or any part thereof; which generates, transmits, transforms or utilizes electrical energy in any form for light, heat, power or communications, all in compliance with applicable plans, specifications, codes, laws and regulations.

|                              |                 |
|------------------------------|-----------------|
| <b>Number of Questions</b>   | <b>75</b>       |
| <b>Time allowed (hours)</b>  | <b>3</b>        |
| <b>Subject Area</b>          | <b># Quest.</b> |
| General Electrical Knowledge | 12              |
| Communication Systems        | 3               |
| Equipment for General Use    | 6               |
| Motors & Controls            | 4               |
| Plan Reading                 | 4               |
| Special Conditions           | 4               |
| Special Equipment            | 3               |
| Special Occupancies          | 2               |
| Wiring & Protection          | 17              |
| Wiring Methods & Materials   | 20              |

### **References**

- **American Electricians' Handbook**, 15th Edition. ISBN: 978-0-07-149462-5. McGraw Hill Glencoe Order Services, P.O. Box 545, Blacklick, OH 43004.
- **NFPA 70 - National Electrical Code**, 2008. ISBN: 978-0877657903. National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 021697471. Available at [www.nfpa.org](http://www.nfpa.org).

## **Master Electrician (Spanish) 2008**

Those who have the knowledge and skill, to install, repair, alter, add to or change any electrical wires, fixtures, appliances, apparatus, raceways, conduit or any part thereof; which generates, transmits, transforms or utilizes electrical energy in any form for light, heat, power or communications, all in compliance with applicable plans, specifications, codes, laws and regulations.

|                              |                 |
|------------------------------|-----------------|
| <b>Number of Questions</b>   | <b>75</b>       |
| <b>Time allowed (hours)</b>  | <b>3</b>        |
| <b>Subject Area</b>          | <b># Quest.</b> |
| General Electrical Knowledge | 12              |
| Communication Systems        | 3               |
| Equipment for General Use    | 6               |
| Motors & Controls            | 4               |
| Plan Reading                 | 4               |
| Special Conditions           | 4               |
| Special Equipment            | 3               |
| Special Occupancies          | 2               |
| Wiring & Protection          | 17              |
| Wiring Methods & Materials   | 20              |

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