

# Low Voltage Electrical

Catalog Number: C21413  
Exam Number: 913354  
Effective Date: 08/12/08

## License Information

**Scope** – Tests a candidate’s knowledge of the design, plan, installation, repair, alteration, and maintenance of electric conductors operating at 30 volts or less for motor controls, intrusion detection, fire detection, sound, signaling, and communication systems.

## Examination Outline

### Open Book

50 Questions - 2-1/2-hour time limit

75% Correct required to pass

Exam Topic	%
General Electrical Knowledge	14
Wiring and Protection	20
Wiring Methods and Materials	20
Equipment for General Use	6
Special Occupancies	6
Special Equipment	6
Special Conditions	14
Communication Systems	14

## References

The following reference **is allowed** in the testing center.

1. *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.

The following references were used to create exam questions but **are not allowed** in the testing center.

1. *Alternating Current Fundamentals*, Seventh Edition, 2006, Delmar Learning, P.O. Box 6904, Florence, KY 41022, www.delmarlearning.com.
2. *Direct Current Fundamentals*, Seventh Edition, 2006, Delmar Learning, P.O. Box 6904, Florence, KY 41022, www.delmarlearning.com.
3. *Industrial Motor Control*, Fifth Edition, 2005, Delmar Learning, P.O. Box 6904, Florence, KY 41022, www.delmarlearning.com.

4. *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.
5. *Understanding and Servicing Alarm Systems*, Third Edition, 1999, Butterworth-Heinemann/Elsevier Science, 11830 Westline Industrial Drive, St. Louis, MO 63146, www.bh.com.

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