

Low Voltage Electrical

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

70% 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 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.
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. *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.
6. *Understanding and Servicing Alarm Systems*, Third Edition, 1999, Butterworth-Heinemann/Elsevier Science, 11830 Westline Industrial Drive, St. Louis, MO 63146, www.bh.com.

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

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