

A-17 Electrical and Transmission Lines (Commercial)

Exam Number: 030317
Effective Date: 08/18/08

License Information

Scope – Installation, alteration, and repair of transmission lines on public right-of-ways, including erection of poles, guying systems, tower line erection, street lighting of all voltages, and all underground systems including ducts for signal, communication, and similar installations. Installing transformers, circuit breakers, capacitors, primary metering devices and other related equipment of all electrical construction is included. All systems of less than 600 volts on or inside a building are excluded.

Examination Outline

Open Book

80 Questions - Four-hour time limit

70% Correct required to pass

Exam Topic	%
General Electrical Knowledge	11
Equipment and Safety	11
Transformers	13
Grounding and Bonding	11
Underground Lines	9
Poles and Structures	9
Overhead Lines	8
Service Drops and Laterals	6
Conductors	6
Arizona Public Works	6
Electrical Supply Stations	4
Safety	6

References

The following references were used to create exam questions and **are allowed** in the testing center.

1. *NFPA 70 National Electrical Code*, 2005 Edition, National Fire Protection Association, 1 Batterymarch Park, P.O. Box 9101, Quincy, MA 02269-9101, www.nfpa.org.
2. *ANSI C2-2007, National Electrical Safety Code*, 2007, Institute of Electrical and Electronics Engineers (IEEE), 10662 Los Vaqueros Circle, Box 3014, Los Alamitos, CA 90720.1264, www.ieee.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. *Mike Holt's Illustrated Guide to Basic Electrical Theory*, Second Edition, Mike Holt enterprises, Inc., 3604 Parkway Boulevard, Suite 3, Leesburg, FL 34748, www.NECcode.com.
3. *State of Arizona OSHA, Safety and Health Standards for the Construction Industry (29 CFR Part 1926)*, 2007, Arizona Industrial Commission, Division of Occupational Safety & Health, Industrial Commission of Arizona, P.O. Box 19070, Phoenix, AZ 85005-9070, www.ica.state.az.us.
4. *The Lineman's and Cableman's Handbook*, Eleventh Edition, 2007, McGraw-Hill Publishing, Inc., P.O. Box 182604, Columbus, OH 43272, books.mcgraw-hill.com.

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

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