



State of Louisiana
STATE LICENSING BOARD FOR CONTRACTORS

Study Reference List for

Electrical Work (Statewide)

Contractors applying for the classification of Electrical Work (Statewide) must pass the Board’s examination for Electrical Work. Following is a list of the subject areas along with the approximate percentages of questions allotted to each subject on the test:

	% of Exam
Code and Craft	79%
Perform electrical calculations (e.g., branch circuits, feeders, services), including but not limited to code calculations	15%
Implement grounding and bonding per code in order to assure safety in the installation	11%
Install and/or monitor electrical systems in accordance with state and national codes and industry-accepted standards (e.g., American Electricians Handbook, NEC, NEMA, NEIS, IEEE, any recognized testing laboratory)	11%
Recognize non-compliant code items in electrical designs and/or installations (e.g., conduit and conductor size, wiring diagrams, transformer sizes, panel board sizes)	6%
Recognize and comply with system safety requirements impacting installation (e.g., clearance requirements, arcflash [OSHA] and blast, LO/TO [Lock out/tag out])	5%
Recognize and comply with system safety requirements designed to protect end user	7%
Install temporary service (e.g., carnivals, festivals, fairs)	3%
Install temporary power (for construction purposes, special occupancy)	4%
Install and maintain Class 3 wiring systems	4%
Install and maintain systems for emerging technologies (e.g., solar systems, fuel cells/electrical vehicles, wind generators)	4%
Interpret diagrams and schematics	7%
Install systems so as to prevent the spread of flame or smoke	3%
Electrical Contracting Business	21%
Comply with federal, state and local safety regulations	2%
Prepare bids and pricing in accordance with requirements of bid submission process	7%
Schedule inspections by regulatory and non-regulatory agencies	2%
Manage project requirements	4%
Obtain certifications and approvals for special inspections (e.g., fire alarm, special locking arrangements)	2%
Communicate with employees, suppliers, clients, public entities and other key stakeholders	2%
Demonstrate leadership and supervisory ability	2%

REFERENCE LIST

The examination for the classification of Electrical Work (Statewide) is an OPEN BOOK TEST, made up of **80 questions**. The minimum passing score is **70**. You will be allowed *four hours* to complete the exam. Pencils and calculators will be provided for the examination. The following references ***only*** will be provided for use at the testing site. **No other references or materials will be allowed.**

National Electrical Code, NFPA 70-2008; National Fire Protection Association; Batterymarch Park, Quincy, MA; 2008.

Ugly's Electrical References, Revised 2008 Edition; Hart, George V.; Jones and Bartlett Publishers; Sudbury, MA; 2008.

Code of Federal Regulations, Title 29, Labor, Part 1926, Revised as of July 1, 2009; U. S. Government Printing Office; Washington, DC; 2009.

This publication can be obtained as a hard copy at: <http://bookstore.gpo.gov/baskets/cfr-listing.jsp>

Lineman's & Cableman's Handbook, 11th Edition; Shoemaker, Thomas and Mack, James; McGraw-Hill; New York; 2006.

Louisiana Driver's Guide Classes D and E; Louisiana Department of Public Safety and Corrections; Baton Rouge, LA; 2009. *This publication can be found at:* <http://dpsweb.dps.louisiana.gov/omvpubs.nsf>

In addition to the references listed above, the reference materials below should be helpful to candidates in preparing for this exam. These materials may NOT contain all of the information needed to be competent in this trade or to pass the examination. The materials below will ***NOT*** be allowed for use on the examination:

Direct Current Fundamentals, Seventh Edition; Herman, Stephen L.; Thomson Delmar Learning; Clifton Park, NY; 2007.

Alternating Current Fundamentals, Seventh Edition; Herman, Stephen L.; Thomson Delmar Learning; Clifton Park, NY; 2007.

Electric Motor Control, Eighth Edition; Herman, Stephen L.; Thomson Delmar Learning; Clifton Park, NY; 2007.

The following contract documents from the **American Institute of Architects** should be reviewed: A 101 – 2007, A 102 – 2007, A 103 – 2007, A 107 – 2007, A 201 – 2007, A 310 – 2007, A 401 - 2007, A 503 – 2007, B 101 – 2007, B 102 – 2007.

A review of the information contained in these documents can be found at:

<http://www.aia.org/contractdocs/AIAS076659>

Contractor's Guide to Business, Law and Project Management, Louisiana 9th Edition; National Association of Contractor's Licensing Agencies; Scottsdale, AZ; 2008.

(NOTE: This is the study guide for the Business and Law exam.)

*Examinees who will **not** be taking the Business and Law examination may obtain this publication from:*

http://store.nascla.org/cgi-bin/nascla.cgi/products_state_specific.html

Electrical contractors who intend to do photovoltaic panel and windmill installations must, in addition to getting their Electrical Work classification, **also** obtain independently the classification of "*Solar Energy Equipment*" and meet other requirements in order for their customers to be eligible for certain state tax credits. For more information about eligibility for the credits, please contact the Louisiana Department of Revenue and Taxation.

Please note that contractors holding the classification of Electrical Work (Statewide) are exempted from all local licensing exams, but **must still acquire any required local licenses.**