

# Department of Human Resources & Examinations

## Louisiana State Licensing Board for Contractors

LSLBC

### 5.1 Electrical Controls and Instrumentation and Calibration

*The installation or fabrication of controls for electrical work including instrumentation, HVAC controls, "Smart house" controls, security alarm panels, fire alarm panels, etc. A license is required when the value exceeds \$10,000. Electrical controls, instrumentation and calibration is a subclassification of Electrical.*

**Visit the Louisiana State Fire Marshal website at [http://sfm.dps.louisiana.gov/lic\\_steps.htm](http://sfm.dps.louisiana.gov/lic_steps.htm) to check for any additional requirements that may be related to this classification.**

# Introduction



*Electrical Controls, Instrumentation and Calibration is an open book examination with 50 multiple-choice questions and a minimum passing score of 70. You will have 2 ½ hours to complete this examination.*

This bulletin contains only a representative sample of the many good references available on the subject at the time the list was compiled. It is not a comprehensive listing. Please note that it is *not* necessary to read all of the books in order to pass the examination. Rather, this list is intended to suggest what types of references might be useful in helping to acquire the basic knowledge needed to perform this type of work. Often the best preparation is training through a mentor or through a company or organizational training program, or a higher educational or vocational educational training program, etc., along with actual experience.

We try to keep this list current with books in print, but some books go out of print from time to time. These books may be available in your local library's collection or through the services of Inter-Library Loan. If still in print, these books may also be available through your local bookstore or by contacting the publisher. All references available via the internet are followed by the appropriate website address for obtaining the reference. From time to time, website addresses may change and no longer be available. In such cases, please search for the appropriate new website address or contact the publisher or a library to obtain a copy.

## Content Outline

Content Domain	%
National Electrical Code	62
Practical Wiring/Calculation	20
Instrumentation Equipment	10
Calibration Equipment	8

## References

***ONLY the following reference will be provided for use at the testing site. No other references or materials will be allowed.***

**National Electrical Code;** National Fire Protection Association; NFPA 10-2008

***Reference books that will NOT be available during the exam, but maybe helpful in preparing for the exam:***

**Instrumentation, Fifth Edition;** Kirk, Franklyn and Nicholas R. Rimboi; American Technical Publishers; Homewood, IL; 2010.

**Basic Instrumentation, Third Edition;** Whalen, Bruce R.; Petroleum Extension Service, The University of Texas at Austin; Austin, TX; 1983.

**Industrial Instrumentation;** Sutko, Al and Faulk, Jerry D.; Delmar Publishers; Albany, NY; 1996.

**Direct Current Fundamentals;** Loper, Orla; and Edgar Tedsen; Delmar Publishers, Inc.

**American Electrician's Handbook ;** Croft, Terrell; Wilford I. Summers; and Frederic P. Hartwell; McGraw-Hill.



[www.lslbc.louisiana.gov](http://www.lslbc.louisiana.gov)

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