

Department of Human Resources & Examinations

Louisiana State Licensing Board for Contractors

LSLBC

Electrical

An electrical contractor is the installation, construction, alteration, improvement, movement, maintenance, repair, or demolition of wiring, cabling, fixtures, appliances, equipment, and/or hardware for the supply of electricity to any structure, building, or project provided the value exceeds \$10,000. The installation of low voltage, including Cat 5, Cat 6, coaxial cables, etc., or fiber optic equipment and infrastructure requires Electrical if any portion of the work involves the installation of equipment, mounting hardware, wiring, etc. which penetrate walls, ceilings, floors, closed spaces, or the building envelope. Penetration of walls, floors, ceilings, closed spaces, or the building envelope includes creating new pathways through walls, floors, ceilings, etc., and running cables through existing pathways through walls, floors, ceilings, etc. Electrical is not required for the purchase or installation of non-attached equipment, which merely involves plugging equipment into an existing wall outlet.

Introduction



Electrical Work (Statewide) is an **open book** examination with **80 multiple-choice questions** and a **minimum passing score of 70**. You will have four hours to complete this examination. The content outline identifies the topics and the weights of those topics on the Electrical Work examination. Successful candidates are expected to understand and apply their knowledge to the following content areas in job-related situations.

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.

References

The reference material listed below was used to prepare the questions for this examination. The examination may also contain questions based on trade knowledge or general industry practices. **Except for Code books**, you can base your answers on later editions of references as they become available. For Code questions, the examinations will be based **only** on the editions of the Code book that are listed.

This examination is **OPEN BOOK**. The books below will be provided to you for the duration of the examination. You will **not** be allowed to use your own books during the examination.

The following reference materials will be provided to you in the testing center:

Ugly's Electrical References, 2020 Edition, Charles R. Miller ISBN-10: 1284194531 or ISBN-13: 978-1284194531

NFPA 70, National Electrical Code (NEC), 2020 Edition ISBN-10: 1455922978, ISBN-13: 978-1455922970

American Electricians' Handbook, Seventeenth Edition, 2021, Frederic P. Hartwell ISBN-13: 978-1260457919; ISBN-10: 1260457915

NFPA 70E, Standards for Electrical Safety in the Workplace, 2021 ISBN-10: 1455926248 ISBN-13: 978-1455926244

Content Outline

Content Domain	%
Project Requirements	5-11
Electrical Calculations	11-17
Grounding and Bonding	9-15
Diagrams and Schematics	6-12
Temporary Service and Temporary Power	3-9
Electrical Systems	15-21
Class 1, 2, and 3 Wiring Systems	2-8
Systems to Prevent the Spread of Flame or Smoke	3-9
Systems Safety Requirements	7-13
Safe Working Conditions	5-11



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600 North Street Baton Rouge, LA 70802 800-256-1392 (225) 765-2301