Department of Human Resources & Examinations

Louisiana State Licensing Board for Contractors

LSLBC

S.12 Solar Energy Equipment

The construction, installation, or repair of solar photovoltaic and/or thermal systems to produce electricity or heating for houses, buildings, swimming pools, plumbing systems, etc. Must hold one or more of the following classification(s): Building Construction, Electrical, Mechanical, or Residential Construction. A license is required when the value exceeds $10,000.

Solar Energy Equipment

The following is excerpted from the Louisiana Administrative Code 46:XXIX, Chapter 3, Section 319 (i.e., the Rules and Regulations of the Board):

A. Contractors applying for the classification of Solar Energy Equipment, must, in addition to all other application or licensing requirements, meet the following requirements prior to issuance of this classification:

1. Hold one or more of the following major classifications:

   a. Building Construction
   b. Electrical Work
   c. Mechanical Work
   d. Residential Building Contractor

2. Complete training in the design of solar energy equipment by an entity and course approved by the board.

3. Pass a written examination approved by the State Licensing Board for Contractors on the installation and maintenance of solar energy equipment.

   a. Any contractor licensed by the State Licensing Board as of August 1, 2014, holding the major classification of Building Construction, Electrical Work (Statewide) and/or Mechanical Work (Statewide) shall be deemed to have met this examination requirement.

   b. An applicant who holds a current Solar PV Installer Certification for solar electric systems or a current Solar Heating Installer certification for solar thermal hot water systems issued by the North American Board of Certified Energy Practitioners shall be deemed to have met both this examination requirement and the training requirement in 1115(A.)(2.).

B. Any work performed to connect wiring or hookups for any photovoltaic panel or system wherein the panel or system is of a value, including labor, materials, rentals, and all direct and indirect project expenses of $10,000 or more shall be performed only by a contractor or subcontractor who holds the classification of Electrical Work or who may perform Electrical Work under the provisions of La. R.S. 37:2156.2(IX)(B.).

C. Any work performed to connect piping or equipment for any solar thermal system wherein the system is of a value, including labor, materials, rentals, and all direct and indirect project expenses of $10,000 or more shall be performed only by a contractor or subcontractor who holds the classification of Mechanical Work or who may perform Mechanical Work under the provisions of La. R.S. 37:2156.2(IX)(B.).

D. Entities engaging in the business of selling or leasing solar energy equipment wherein such entities enter into agreements for installing, servicing, or monitoring solar energy equipment, including entities engaged in the business of arranging agreements for the lease or sale of solar energy systems or acquiring customers for financing entities, must possess a state contractor's license with the classification of Solar Energy Equipment. Contractors licensed in the state as of August 1, 2014 holding the major classifications of Building Construction, Electrical Work Statewide or Mechanical Work Statewide shall be deemed to have met the examination requirement.

Introduction

Solar Energy Equipment *is a **closed book** examination with 100 multiple-choice questions and a minimum **passing score of 70**. You will have **four 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	%
Solar Thermal Systems	11
Piping Interconnections and Components	7
Electrical Interconnections and Components	15
Estimating and Project Design	10
Design and Calculations	16
General Knowledges and Photovoltaic Theory	15
Permitting, Interconnections of Utilities and Inspection	8
Safety	10
Service and Maintenance	8

References

2012 Solar Electricity Handbook, Boxwell,Michael; Greenstream Publishing; UK; 2012.

2012 Uniform Solar Energy Code, IAPMO/ANSI USEC1-2012; International Association of Plumbing and Mechanical Officials; Ontario, CA, 2012.

2014 National Electrical Code; National Fire Protection Association; Quincy, MA; 2014.

Photovoltaic Systems; Second Edition; Dunlop, James; American Technical Publishers, Inc.; Orland Park, IL; 2010.

NCCER Solar Photovoltaic Systems Installer, Trainee Guide; National Center for Construction Education and Research; Pearson; New York; 2011.

Standard for Installing and Maintaining Photovoltaic (PV) Power Systems, NECA 412-2012; National Electrical Contractors Association; Bethesda, MD; 2012

Solar Water Heating Systems: Fundamentals and Installation; International Pipe Trades Joint Training Committee, Inc.; American Technical Publishers, Inc.; Orland Park, IL; 2013.

References Continued

Safety and Health Regulations for Construction; Code of Federal Regulations, Title 29, Part 1926; U. S. Department of Labor, Occupational Safety and Health Administration; Washington, D.C. https://www.osha.gov/

Introduction to Solar Principles; Kissell, Thomas E.; Prentice Hall; Boston; 2012.

Solar Electric Handbook; Second Edition; Solar Energy International; Pearsons Learning Solutions; Boston, MA 2013.

Solar Energy Photovoltaics and Domestic Hot Water; Plante, Russell H.; Academic Press; Waldham, MA; 2014

SINCE 1956
LOUISIANA STATE LICENSING BOARD FOR CONTRACTORS

www.lslbc.louisiana.gov

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