

Department of Examinations and Assessment

Louisiana State Licensing Board for Contractors

LSLBC

Heavy Construction

Heavy Construction is a **closed** book examination with 100 multiple-choice questions which are equally weighted. You will have **four hours** to complete this examination.

Listed below is only a sample of the many good references available on this subject which may be helpful in studying for this examination. This 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 books might be useful in helping to acquire the basic knowledge needed to perform this type of work.

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 your local library by using 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

Site Preparation	11%	Concrete and Paving	12%
Foundations and Piling Structures	11%	Marine Work	6%
Equipment and Piping	14%	Project Management	15%
Rigging, Lifting and Hauling	15%	Railways	4%
	8%	Oil & Gas Field Services	4%

Design and Control of Concrete Mixtures, Fifteenth Edition; Wilson, M. L. and Kosmatka, S. H.; Portland Cement Association; Skokie, IL; 2011.

Developing Your Stormwater Pollution Prevention Plan: A Guide for Construction Sites; U.S. Environmental Protection Agency; Washington, DC. Available at: http://www.epa.gov/npdes/pubs/sw_swppp_guide.pdf

Estimating Excavation; Burch, Deryl; Craftsman Book Company; Carlsbad, CA; 2000.

Estimator's Piping Man-Hour Manual, Fifth Edition; Page, John S.; Gulf Professional Publishing; Houston, TX; 1977.

Hoisting and Rigging Standard; U. S. Department of Energy; Washington, DC.
<http://energy.gov/hss/downloads/technical-standards-doe-std-1090-2004-june-01-2004>

References Continued

Hot-Mix Asphalt Paving Handbook; by the U. S. Army Corps of Engineers and the U. S. Department of Transportation, Federal Aviation Administration; Washington, DC.

http://www.faa.gov/airports/resources/advisory_circulars/index.cfm/go/document.information/documentNumber/150_5370-14A

Louisiana Administrative Code, Title 43, Part XIX, Chapter 3 and Chapter 5; Louisiana Office of State Register; Baton Rouge, LA. <http://doa.louisiana.gov/osr/lac/43v19/43v19.pdf>

Managing Your Environmental Responsibilities: A Planning Guide for Construction and Development; Office of Compliance, Office of Enforcement and Compliance Assurance, U.S. Environmental Protection Agency; Washington, DC; 2005.

<http://www.epa.gov/compliance/resources/publications/assistance/sectors/constructmyer/myerguide.pdf>

Millwrights and Mechanics Guide, Fifth Edition; Davis, Thomas Bieber and Nelson, Carl A.; Audel, Wiley Publishing, Inc.; Indianapolis, IN; 2004.

The Piping Guide for the Design and Drafting of Industrial Piping Systems; Whistance, Dennis J. and Sherwood, David R.; Syentek, Inc.; Construction Trades Press, LLC; Clinton, NC; 2008.

Practical Guide to Railway Engineering, Second Edition; American Railway Engineering & Maintenance of Way Association; Landover, MD; 2003

Principles and Practices of Commercial Construction; Andres, Cameron K. and Smith, Ronald C.; Prentice-Hall, Inc.; Upper Saddle River, NJ; 2009.

Railroad Track Maintenance & Safety Standards; UFC 4-860-03 Unified Facilities Criteria; U.S. Department of Defense; Washington, DC; 2008.

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.; 2011.

<http://www.gpo.gov/fdsys/pkg/CFR-2011-title29-vol8/pdf/CFR-2011-title29-vol8.pdf>

Soils in Construction Fifth Edition; Schroeder, W.L. et al; Pearson Education, Inc.; Upper Saddle River, NJ; 2004.

The Heavy Construction classification includes the work of all of the following subclassifications:

- Clearing, Grubbing, and Snagging
- Dams, Reservoirs and Flood Control Work (other than levees)
- Dredging
- Electrical Transmission Lines
- Fencing
- Foundations and Pile Driving
- Industrial Piping
- Industrial Plants
- Industrial Ventilation
- Landscaping, Grading and Beautification
- Oil Field Construction
- Oil Refineries
- Railroads
- Transmission Pipeline Construction
- Tunnels
- Wharves, Docks, Harbor Improvements and Terminals