

Department of Examinations and Assessment

Louisiana State Licensing Board for Contractors

LSLBC

Building Construction

The Louisiana **Building Construction** is a **closed book** examination with 100 multiple-choice questions which are equally weighted. You will have four hours to complete this examination. A calculator will be provided for your use during the 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

Concrete	21%	Structural Steel	9%
Other Trades	18%	Roofing	8%
Excavation and Sitework	16%	Finish Carpentry	8%
Rough Carpentry	13%	Masonry	7%

Olin's Construction: Principles, Materials, and Methods, Ninth Edition; Simmons, H. Leslie.; John Wiley & Sons, Inc.; New York; 2011.

The Contractor's Guide to Quality Concrete Construction, Third Edition; American Society of Concrete Contractors and American Concrete Institute; Farmington Hills, MI; 2006.

Estimating in Building Construction, Seventh Edition; Dagostino, Frank R. and Feigenbaum, Leslie; Prentice-Hall, Inc.; Upper Saddle River, NJ; 2011.

Fundamentals of Building Construction, Fifth Edition; Allen, Edward; John Wiley & Sons; New York; 2008.

Principles & Practices of Commercial Construction, Ninth Edition; Prentice-Hall, Inc.; Upper Saddle River, NJ; 2013.

Estimating for Residential Construction, Second Edition; Delmar Publishers, Inc.; Clifton Park, NY; 1991.

Hoisting and Rigging Standard; Chapters 9 and 11; U. S. Department of Energy; Washington, DC. Available as a free download at: <http://energy.gov/hss/downloads/technical-standards-doe-std-1090-2004-june-01-2004>

Construction Industry Digest; OSHA 2202; Occupational Safety and Health Administration; Washington, DC. Available as a free download at: www.osha.gov/Publications/osha2202.pdf

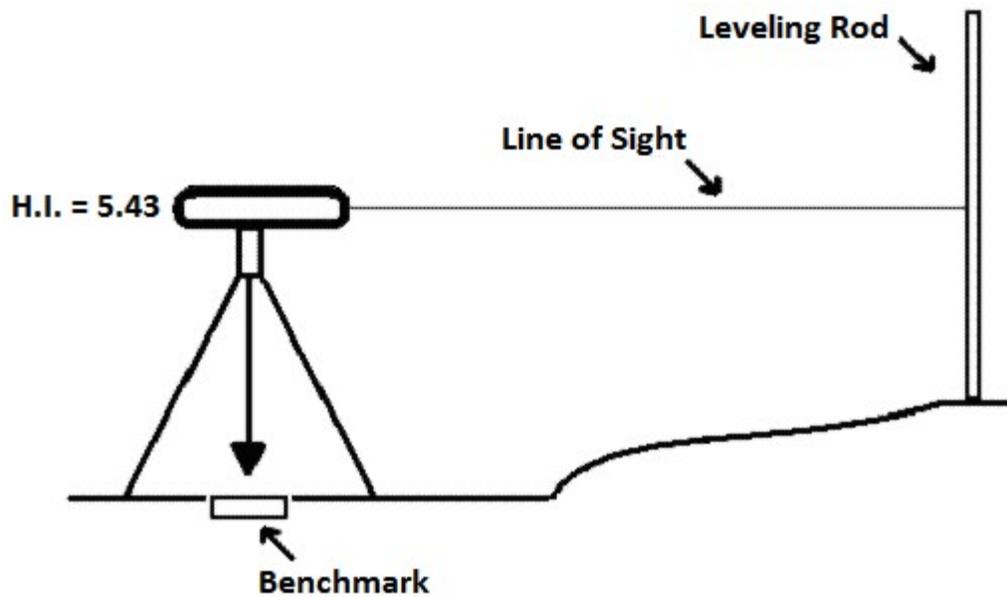
The Building Construction classification includes the work of all of the following subclassifications:

Acoustical Treatments
Air Conditioning Work, Ventilation,
Refrigeration and Ductwork
Driveways, Parking Areas, Etc. Asphalt
and/or Concrete Exclusive of Highway
and Street Work
Drywall
Electrical Construction for Structures
Fencing
Fire Sprinkler Work
Foundations for Buildings Equipment
or Machinery
Incinerator Construction
Installation of Equipment, Machinery
and Engines
Installation of Pneumatic Tubes and
Conveyers
Insulation for Cold Storage and
Buildings
Insulation for Pipes and Boilers
Landscaping, Grading and
Beautification
Lathing, Plastering and Stuccoing

Masonry, Brick, Stone
Ornamental Iron and Structural Steel
Erection Metal Buildings
Painting and Interior Decorating,
Carpeting
Pile Driving
Plumbing
Residential Construction
Rigging, House Moving, Wrecking and
Dismantling
Roof Decks
Roofing and Sheet Metal, Siding
Sheet Metal Duct Work
Steam and Hot Water Heating in
Buildings or Plants
Stone, Granite, Slate, Resilient Floor
Installations
Swimming Pools
Tile, Terrazzo and Marble
Water Cooling Towers and Accessories

SAMPLE QUESTIONS

21. Refer to the illustration below for this question:



In the drawing shown, the survey instrument reads 4.17 on the leveling rod. The height of the instrument is 5.43. The benchmark elevation is 214.56.

What is the elevation at the leveling rod?

- a) 215.82
- b) 218.73
- c) 219.99
- d) 224.16

22. The last step in finishing a smooth concrete slab is to:

- a) trowel the surface.
- b) float the surface.
- c) screed (strike off) the surface.
- d) vibrate the surface.

23. A building slab will be 25' x 90' x 8".

How many cubic yards of concrete will be needed?

(Note: Assume that the grade will be perfectly level and that there will be no crown or slope in the slab. Do not include waste or excess in your estimate.)

- a) 27 cubic yards.
- b) 56 cubic yards.
- c) 167 cubic yards.
- d) 180 cubic yards.

24. A rectangular building with a gable roof will be 80' x 36'. The rafters will be spaced 32" on center.

How many total rafters will be needed?

- a) 30
- b) 31
- c) 60
- d) 62

25. When using a crane to lift a wood timber, the guide rope should be attached to the:

- a) Hoisting rope.
- b) Hook.
- c) Wood timber.
- d) Jib.

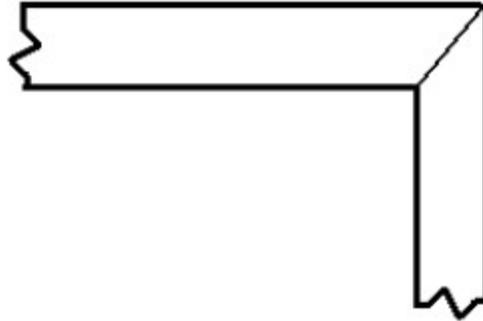
26. Refer to the drawing below:



The steel drawing shown above indicates a(n):

- a) American Standard Beam.
- b) structural tube.
- c) torque strip.
- d) steel track.

27. Refer to the drawing below for this question:



The corner of this molding is square. The miter joint shown is cut at a:

- a) 45° angle.
- b) 90° angle.
- c) 180° angle.
- d) 240° angle.

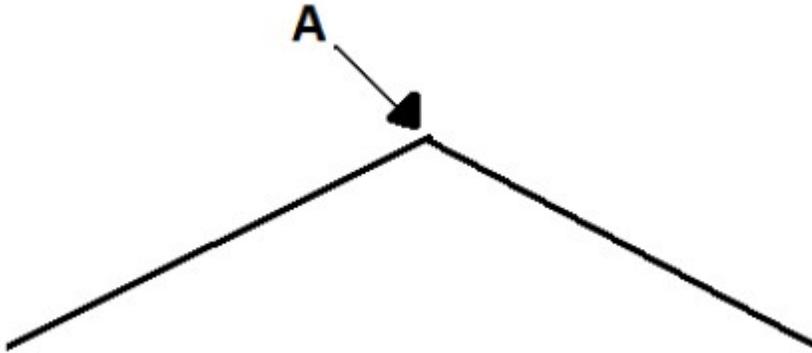
28. Hardwood strip flooring should be installed:

- a) perpendicular (i.e., at a right angle) to the flooring joists.
- b) parallel with the flooring joists.
- c) diagonal to the flooring joists.
- d) first perpendicular to the flooring joists, then parallel with the flooring joists.

29. If a freshly mixed mortar batch for a brick wall is too stiff to work, the mason should:

- a) throw out the mortar and mix a new batch.
- b) add more water to the mortar batch.
- c) add more cement to the mortar batch.
- d) heat the mortar batch.

30. Refer to the illustration below:



The type of shingles that would be installed at **A** would be:

- a) valley shingles.
- b) ordinary three-tab shingles.
- c) ordinary two-tab shingles.
- d) ridge shingles.

KEY for the
SAMPLE QUESTIONS

21. A

22. A

23. B

24. D

25. C

26. B

27. A

28. A

29. B

30. D