

# Department of Human Resources & Examinations

## Louisiana State Licensing Board for Contractors

LSLBC

### 9 Residential Construction

*The construction of a residential structure as defined in 37:2150.1(16), when the cost of the undertaking exceeds \$50,000. Residential construction also refers to home improvement contracting as provided for in 37:2150(8) when the cost of the undertaking exceeds \$50,000 dollars. It shall not include the manufactured housing industry or those persons engaged in building residential structures that are mounted on metal chassis and wheels.*

Note: A qualifying party who has previously passed the Building Construction examination is not required to pass the Residential Building Contractor examination in order to qualify for this classification.

# Introduction



Residential Construction is a *closed book* examination with *80* 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

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Concrete and Rebar 19	19
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Roofing	6
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Plans and Specifications	5

## References

Carpentry and Building Construction: Feirer, Mark D. and Feirer John L; Glencoe/McGraw-Hill; New York; 2003/2004.

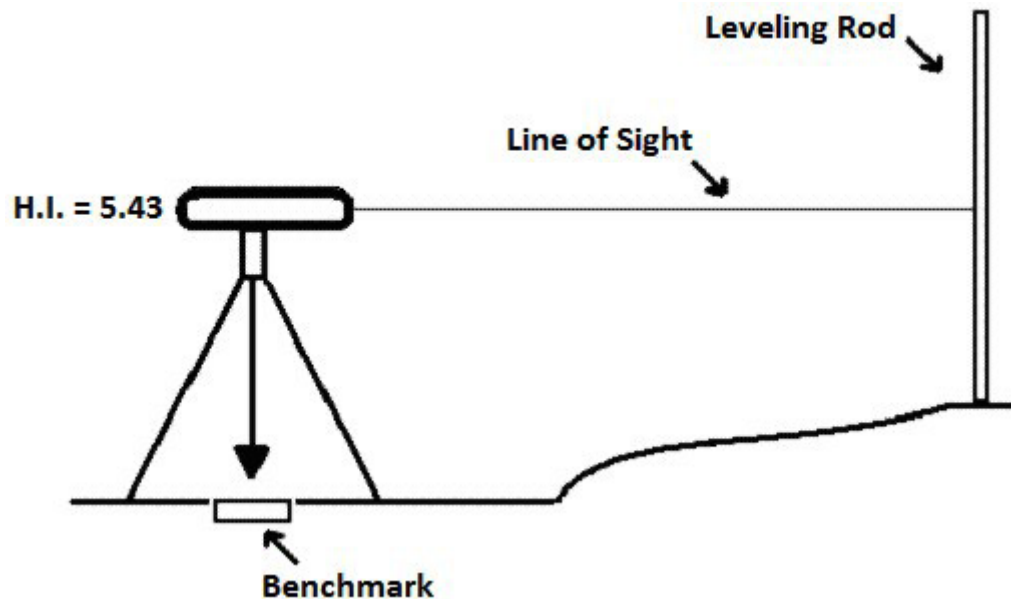
International Residential Code for One and Two-Family Dwellings: International Code Council Birmingham, AL; 2006. *Please note that all questions referenced to the International Residential Code are consistent with the 2006, 2009, 2012, 2015, and 2018 editions of that code.*

Building Your High-Performance Home: Gulf Region Homeowners Guide; Reichel, Claudette Hanks, Ed. D., et. al.; Louisiana State University Agricultural Center; Baton Rouge, LA; 2009. Available at: [www.louisianahouse.org](http://www.louisianahouse.org)

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

## Sample Questions

1. 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
2. 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.

3. 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.

4. 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

5. 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.

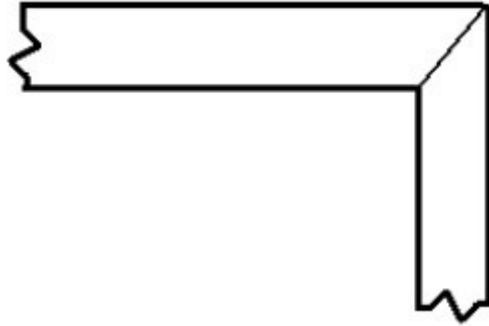
6. Refer to the drawing below:



The steel drawing shown above indicates a(n):

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

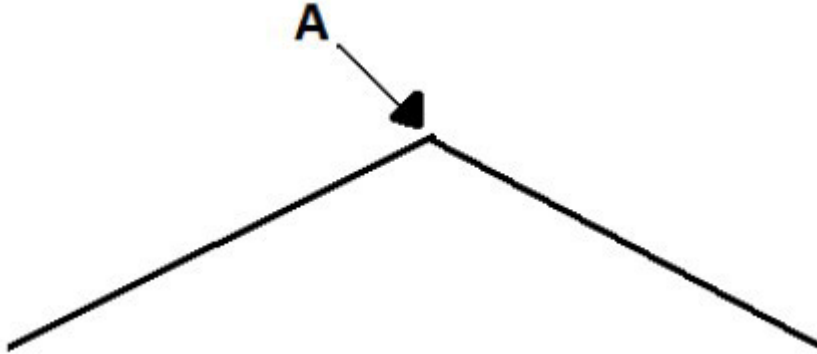
7. Refer to the drawing below for this question:



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.
8. 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.
9. 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.

10. 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.

### Sample Question Answer Key

- 1. A
- 2. A
- 3. B
- 4. D
- 5. C
- 6. B
- 7. A
- 8. A
- 9. B
- 10. D



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