



**CONTRACTORS STATE LICENSE BOARD  
LICENSE EXAMINATION STUDY GUIDE**



**STRUCTURAL STEEL (C-51)**

**Content of the Examination**

The Structural Steel (C-51) Examination is divided into five major sections:

**1. Planning and Estimating (27%)**

- Plans and specifications
- Bidding and job cost estimating

**2. Job Preparation (12%)**

- Shop preparation
- Field preparation

**3. Shop Fabrication (18%)**

- Fabrication
- Finishing
- Mobilization

**4. Field Erection (19%)**

- Placing
- Connecting

**5. Safety (24%)**

- Personnel safety
- Shop and site safety

*\*Percentages are approximate\**

**Test Site Policy**

This is a closed-book examination. No reference materials may be used during the examination. All materials brought to the examination site must be left in an unmonitored area at your own risk.

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**Test Strategy**

This is a multiple-choice examination with four choices per question. Some questions require mathematical computation. Examination questions are written to provide only one BEST answer and are NOT written as trick questions.

There is no penalty for guessing. If you are unsure about a particular question, it is better to try to answer the question than to leave the question blank.

Plenty of time is provided to answer all examination questions, so be sure to read each question and its four choices completely and carefully before selecting the BEST possible answer to the question.

## Sample Questions

The following questions are typical of the types of items that are on the examination. The correct answer is marked with "➡".

1. If a crane company charges \$250 per hour of operation, how much will a crane cost for four days of 8 hours each day and one day of 4 hours, in addition to 4 hours of travel time?
  - a. \$32,000
  - ➡ b. \$10,000
  - c. \$8,000
  - d. \$4,000
2. Where are the requirements for the completion of welding inspections typically found?
  - a. Architectural cover pages
  - b. Cal/OSHA
  - c. California Building Code
  - ➡ d. Engineer's structural specifications
3. Which of the following would be the MOST commonly found in a moment connection?
  - A. Base plate
  - b. Cap plate
  - c. Lintel brace
  - ➡ d. Continuity plate

*\*All questions are written and reviewed by licensed contractors who are actively working in the field\**

## Resources

*Publisher information for reference books and code is provided below. Other sources for reference books may be found online. **California code books can be viewed online: [www.bsc.ca.gov](http://www.bsc.ca.gov)***

**2013 California Building Code.** California Code of Regulations, Title 24. International Code Council.  
PHONE: (800) 786-4452  
INTERNET: [www.iccsafe.org](http://www.iccsafe.org)

**Code of Standard Practice for Steel Buildings and Bridges.** American Institute of Steel Construction (AISC).  
PHONE: (800) 644-2400  
INTERNET: [www.aisc.org](http://www.aisc.org)

**Specification for Structural Joints Using ASTM A325 or A490 Bolts.** American Institute of Steel Construction (AISC).  
PHONE: (800) 644-2400  
INTERNET: [www.aisc.org](http://www.aisc.org)

**State of California General Industry & Electrical Safety Orders (Cal/OSHA) and State of California Construction & Electrical Safety Orders (Cal/OSHA). 2015.** California Code of Regulations, Title 8. Mancomm.  
PHONE: (877) 626-2666  
INTERNET: [www.mancomm.com](http://www.mancomm.com)

**Steel Construction Manual.** American Institute of Steel Construction (AISC).  
PHONE: (800) 644-2400  
INTERNET: [www.aisc.org](http://www.aisc.org)

**Structural Welding Code – Reinforcing Steel. D1.4** American Welding Society.  
PHONE: (800) 443-9353  
INTERNET: [www.aws.org](http://www.aws.org)

**Structural Welding Code – Sheet Steel. D1.3** American Welding Society.  
PHONE: (800) 443-9353  
INTERNET: [www.aws.org](http://www.aws.org)

**Structural Welding Code – Steel. D1.1** American Welding Society.  
PHONE: (800) 443-9353  
INTERNET: [www.aws.org](http://www.aws.org)

*\*Publisher information is current as of 8/15\**