REINFORCING STEEL (C-50)

Content of the Examination

The Reinforcing Steel (C-50) Examination is divided into five major sections:

1. Planning and Estimating (35%)
   • Plans and specifications
   • Types and grades of reinforcing steel
   • Determining quantities of materials
   • Estimating costs

2. Fabrication (10%)
   • Preparation
   • Fabrication

3. Layout and Placement of Reinforcing Steel (25%)
   • Placing marks
   • Setting templates
   • Setting bar supports
   • Placing and tying reinforcing steel

4. Post-Tensioned Cables and Specialty Projects (8%)
   • Layout and placement of cables
   • Stressing cables
   • Placing reinforcing steel in special locations

5. Safety (22%)
   • Personnel safety
   • Equipment and job 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.

Test Strategy

This is a multiple-choice examination with four choices per question. Examination questions are written to provide only one BEST answer. Some questions require mathematical computation. A calculator will be provided.

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

Below are three typical examination questions. The correct answer is underlined.

1. A contractor determines that a particular job will take three workers an 8-hour day to install 50 feet of retaining wall reinforcement. The labor cost is $43 per person per hour and the wall is 300 feet long. What is the total labor cost for the job?

   a. $1,032  
   b. $2,150  
   c. $6,192  
   d. $12,900

2. The pull-through method of tendon placement uses which of the following types of tendons?

   a. Single-strand tendons  
   b. Multi-strand tendons  
   c. Lubricated tendons  
   d. Bar tendons

3. What is the MINIMUM hook length as measured from the center of the bending pin for a standard 90-degree hook?

   a. 8"  
   b. 12"  
   c. 4d  
   d. 12d

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

Resources

Publisher information for reference books and code is provided below. Other sources for reference books may be found online.

PHONE: (847) 517-1200  
INTERNET: www.crsi.org

*Placing Reinforcing Bars.* Concrete Reinforcing Steel Institute.  
PHONE: (847) 517-1200  
INTERNET: www.crsi.org

PHONE: (248) 848-3180  
INTERNET: www.post-tensioning.org

*Construction and Maintenance Manual for Post-Tensioned Slab-on-Ground Foundations.* Post-Tensioning Institute.  
PHONE: (248) 848-3180  
INTERNET: www.post-tensioning.org

PHONE: (877) 626-2666  
INTERNET: www.mancomm.com  
VIEW ONLINE: www.dir.ca.gov/dosh/LawsAndRegulations.htm

*Publisher information is current as of 10/19*