Content of the Examination

The Sign (C-45) Examination is divided into five major sections:

1. Planning and Estimating (29%)
   - Sign criteria and codes
   - Plans and specifications
   - Sign engineering and design
   - Sign components
   - Electrical requirements
   - Material, labor, and equipment estimation

2. Sign Design and Fabrication (22%)
   - Sign patterns
   - Sign face fabrication
   - Channel and reverse channel letters
   - Sign cabinet fabrication
   - Sign assembly
   - Fluorescent, LED, and HID fabrication
   - Neon design and fabrication

3. Sign Installation (21%)
   - Prewiring of sign electrical components
   - Excavation and concrete footings
   - Pole and monument sign installation
   - Building sign installation
   - Electrical connections

4. Testing, Maintenance, and Troubleshooting (11%)
   - Sign testing and troubleshooting
   - Sign repair and maintenance
   - Tools and equipment

5. Safety (17%)
   - Electrical hazards
   - Personal protective equipment
   - Cal/OSHA safety requirements
   - Hazardous materials
   - Working with cranes and ladders
   - Transportation and traffic control

*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. What is the advantage of using aluminum instead of sheet metal to fabricate channel letters?
   a. It is less costly.
   b. It is easier to paint.
   c. It is more corrosion resistant.
   d. It is UL approved.

2. Which screw has the greater shaft diameter?
   a. #6
   b. 3/16"
   c. #10
   d. 1/4"

3. A contractor is required to run 197 feet of EMT to the location of the sign. How many pieces of EMT will be required?
   a. 15
   b. 19
   c. 20
   d. 25

*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. **California code books can be viewed online:** www.bsc.ca.gov

PHONE: (800) 786-4452
INTERNET: www.iccsafe.org

**2016 California Electrical Code (especially Article 600).** California Code of Regulations, Title 24. BNI Publications, Inc.
PHONE: (888) 264-2665
INTERNET: www.bni-books.com

PHONE: (800) 786-4452
INTERNET: www.iccsafe.org

PHONE: (805) 870-0900
INTERNET: www.theaccessguy.com

**California Vehicle Code.** Department of Motor Vehicles.
PHONE: (800) 777-0133
INTERNET: www.leginfo.legislature.ca.gov/faces/codes.xhtml

**Neon Installation Guide.** Northeast States Sign Association.
PHONE: (800) 216-7446
INTERNET: www.neoninstallationguide.com

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

PHONE: (888) 853-3503
INTERNET: www.comm-2000.com

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*Publisher information is current as of 12/18*