



CONTRACTORS STATE LICENSE BOARD LICENSE EXAMINATION STUDY GUIDE



REFRIGERATION (C-38)

Content of the Examination

The Refrigeration (C-38) Examination is divided into five major sections:

1. Planning and Estimating (24%)

- Planning refrigeration projects
- Estimating refrigeration projects

2. Refrigeration System Installation (29%)

- Job site preparation
- Installing refrigeration equipment
- Starting up refrigeration systems
- Installing specialty refrigeration systems

3. Refrigeration System Repair (24%)

- Troubleshooting refrigeration systems
- Troubleshooting electrical problems
- Repairing refrigeration systems

4. Refrigeration System Maintenance (13%)

- Maintaining refrigeration systems
- Documenting code compliance

5. Safety (10%)

- Personnel safety
- Job site safety

Percentages are approximate

Test Policy

This is a closed-book examination. No reference materials may be used during the examination.

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 marked with an asterisk (*).

1. Where must the emergency control be installed for a refrigeration room?
 - a. Immediately next to the exit door of the building
 - b. Immediately outside the refrigeration room's exit*
 - c. Within 10 feet of the main control panel
 - d. Within 25 feet of the main control panel

2. Metering devices are sized to which system component's BTU rating?
 - a. The compressor
 - b. The condensing unit
 - c. The evaporator*
 - d. The receiver

3. A contractor is bidding to install a walk-in cooler and finds that the compressor costs \$4,600 and the piping is \$5.76/foot for 200 feet of pipe. If this is 40% of the contract, what is the contract's total bid price?
 - a. \$5,752
 - b. \$9,204
 - c. \$10,360
 - d. \$14,380*

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.dgs.ca.gov/bsc

2022 California Electrical Code. California Code of Regulations, Title 24. BNI Publications, Inc.
PHONE: (888) 264-2665
INTERNET: www.bnibooks.com

2022 California Mechanical Code. California Code of Regulations, Title 24. International Association of Plumbing and Mechanical Officials (IAPMO).

PHONE: (909) 472-4100

INTERNET: www.iapmo.org

California Health and Safety Code.

INTERNET:

leginfo.legislature.ca.gov/faces/codes.xhtml

Fundamentals of HVACR. Carter Stanfield & David Skaves. Pearson.

INTERNET: www.pearson.com

Modern Refrigeration and Air Conditioning.

Goodheart-Willcox.

PHONE: (800) 323-0440

INTERNET: www.g-w.com

Refrigeration & Air Conditioning Technology.

Cengage Learning.

PHONE: (800) 354-9706

INTERNET: www.cengage.com

State of California General Industry & Electrical Safety Orders (Cal/OSHA) and State of California Construction & Electrical Safety Orders (Cal/OSHA). 2022. California Code of Regulations, Title 8. Mancomm.

PHONE: (877) 626-2666

INTERNET: www.mancomm.com

VIEW ONLINE:

www.dir.ca.gov/dosh/LawsAndRegulations.htm

Publisher information is current as of 1/23