WATER CONDITIONING (C-55)

Content of the Examination

The Water Conditioning (C-55) Examination is divided into four major sections:

1. Planning and Estimating (22%)
   - Water analysis
   - Job site evaluation
   - System selection
   - Planning and estimating

2. Water Systems, Component Installation, and Startup (29%)
   - Piping and valves
   - Equipment installation
   - Drain connections/backflow
   - Electrical connections
   - Startup and calibration

3. Troubleshooting, Maintenance, Repair, and/or Replacement (34%)
   - Service and maintenance
   - Troubleshooting
   - Repair and replacement
   - Disinfection

4. Safety (15%)
   - Personnel safety
   - Handling hazardous materials
   - Environmental safety
   - Tool and equipment 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. What is the MAXIMUM fluoride level permitted in drinking water?
   - a. 2.0 mg/L
   - b. 4.0 mg/L*
   - c. 6.0 mg/L
   - d. 8.0 mg/L

2. A softener with a rated capacity of 30,000 grains treating water with 171 mg/L of hardness should be able to soften a MAXIMUM of how many gallons of water before regeneration is necessary?
   - a. 175.43 gallons
   - b. 3,000 gallons*
   - c. 17,100 gallons
   - d. 30,000 gallons

3. What is the function of a cation exchange unit?
   - a. To oxidize iron from the water
   - b. To remove calcium and magnesium*
   - c. To reduce dissolved solids
   - d. To increase pH

*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

INTERNET: www.iapmo.org


INTERNET: www.routledge.com

INTERNET: www.mancomm.com
VIEW ONLINE: www.dir.ca.gov/dosh/LawsAndRegulations.htm

Water Quality Association Knowledge Base. INTERNET: wqa.org/education/knowledge-base

*Publisher information is current as of 1/23*