

C-37R (Residential) and L-54 (Commercial) Water Conditioning Equipment

Exam Number: 030611
Effective Date: 08/18/08

License Information

Scope – Installation, repair and maintenance of water conditioning equipment, piping, fittings and valves necessary to connect a water conditioner unit to existing piping. Installation and repair of indirect waste pipe carrying brine, backwash, and rinse water to the point of disposal only. All trenching, backfilling and grading necessary for the installation of piping for a water conditioning unit only.

Installation and repair of electrical control panels (plug-in type) and apparatus of less than 25 volts and/or 100 watts (in other than hazardous locations or in raceways) and required grounding devices. Installation of exchange tanks and necessary piping. Installation of concrete supports for water conditioning units only.

The trade test is considered equivalent for these classifications and upon passing the CBME and trade exam, either license classification may be applied for without further testing.

Examination Outline

Closed Book

70 Questions - Two-hour time limit
70% Correct required to pass

Exam Topic	%
General Knowledge	31
Water Conditioning Equipment	31
Water Filters and Reverse Osmosis	14
Indirect Waste	9
Trenching and Backfill	9
Concrete Supports	3
Safety	3

References

The following references were used to create exam questions but **are not allowed** in the testing center.

1. *Uniform Plumbing Code*, 2006, International Association of Plumbing and Mechanical Officials (IAPMO), 5001 East Philadelphia Street, Ontario, CA 91761-2816, www.iapmo.org.
2. *A Practical Application Manual for Residential, Point of Use Reverse Osmosis Systems*, 2002 Edition, Water Quality Association, 4151 Naperville Road, Lisle, IL 60532, www.wqa.org.

3. *Design and Control of Concrete Mixtures*, Fourteenth Edition, 2002, Portland Cement Association, 5420 Old Orchard Road, Skokie, IL 60077, www.cement.org.
4. *Mathematics for Plumbers and Pipefitters*, Seventh Edition, 2008, Delmar Learning, P.O. Box 6904, Florence, KY 41022, www.delarmlearning.com.
5. *Plumbing Design and Installation*, Third Edition, 2006, American Technical Publishers (ATP), 1155 West 17th Street, Homewood, IL 60430-4600, www.go2atp.com.
6. *State of Arizona OSHA, Safety and Health Standards for the Construction Industry (29 CFR Part 1926)*, 2007, Arizona Industrial Commission, Division of Occupational Safety & Health, Industrial Commission of Arizona, P.O. Box 19070, Phoenix, AZ 85005-9070, www.ica.state.az.us.
7. *Water Treatment Fundamentals*, Seventh Edition, 2001, Water Quality Association, 4151 Naperville Road, Lisle, IL 60532, www.wqa.org.

For information on how to obtain exam references, please call toll-free 877.624.2562.

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