

A-16 Waterworks (Commercial)**License Information**

Scope – All work necessary for the production and distribution of water including drilling well, setting casing and pump, related electrical work, related concrete work, excavation, piping for storage and distribution, storage tanks, related fencing, purification and chlorination equipment.

Examination Outline**Closed Book****80 Questions - Three-hour time limit****70% Correct required to pass**

Exam Topic	%
Water Distribution Systems	30
Excavation and Backfill	20
Water Wells	15
Pumps	10
Water Treatment	10
Water Storage Tanks	5
Safety	10

References

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

- 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.
- Arizona Uniform Standard Specifications and Details for Public Works Construction*, 2007, Arizona Maricopa Association of Governments (MAG), 302 North First Avenue, Suite 300, Phoenix, AZ 85003, www.mag.maricopa.gov.
- AWWA Standard for Installation of Ductile Iron Water Mains and their Appurtenances, C600-05*, 2005, American Water Works Association, 6666 West Quincy Avenue, Denver, CO 80235, www.awwa.org.
- Building Fences of Wood, Stone, Metal, & Plants*, 1987, Williamson Publishing Company, P.O. Box 185, Charlotte, VT 05445, www.williamsonbooks.com.
- Design and Control of Concrete Mixtures*, Fourteenth Edition, 2002, Portland Cement Association, 5420 Old Orchard Road, Skokie, IL 60077, www.cement.org.
- Drilling, The Manual of Methods, Applications and Management*, Fourth Edition, 1997, Lewis Publishers – CRC Press LLC, Attn: Order Entry, 2000 NW Corporate Blvd., Boca Raton, FL 33431-9868, www.crcpress.com.
- "Greenbook" Standard Specifications for Public Works Construction*, Fourteenth Edition, 2006, BNI Publications, 1612 South Clementine Street, Anaheim, CA 92802, www.bnibooks.com.
- Groundwater and Wells*, Third Edition, 2007, That Technical Bookstore, Inc., 8760 Complex Drive, San Diego, CA 92123, www.thattechnicalbookstore.com.
- Installation Guide for Ductile Iron Pipe*, 2007 Edition, Ductile Iron Pipe Research Association, 245 Riverchase Parkway East, Suite O, Birmingham, AL 35244, www.dipra.org.
- Modern Welding*, 2004 Edition, Goodheart-Willcox Company, Inc., 18604 West Creek Drive, Tinley Park, IL 60477-6243, www.g-w.com.
- NFPA 70 National Electrical Code*, 2005 Edition, National Fire Protection Association, 1 Batterymarch Park, P.O. Box 9101, Quincy, MA 02269-9101, www.nfpa.org.
- Pipe and Excavation Contracting*, 1987 Edition, Craftsman Book Company, 6058 Corte del Cedro, Carlsbad, CA 92009, www.craftsman-book.com.
- Principles and Practices of Commercial Construction*, Eighth Edition, 2008, Prentice Hall/Pearson Education, Order Processing Center, P.O. Box 11071, Des Moines, IA 50336-0693, vig.prenhall.com.
- PVC Pipe – Design and Installation*, AWWA Manual M23, Second Edition, 2002, American Water Works Association, 6666 West Quincy Avenue, Denver, CO 80235, www.awwa.org.
- Water Systems Handbook*, Twelfth Edition, 2006, Water Systems Council, National Programs Office, 1101 30th Street NW, Suite 500, Washington, DC 20007, www.watersystemscouncil.org.

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

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