

B-4 General Residential Engineering

License Information

Scope – Construction and repair of appurtenances to residential structures. This scope includes all B-4R subclassifications: B-4R Corrosion Control; B-4R Sport Court Accessories; B-4R Soil Stabilization (note: Appurtenance is defined in R4-9-101 definitions).

Examination Outline

Closed Book

80 Questions - Three-hour time limit

70% Correct required to pass

Exam Topic	%
Pools, Spas and Hot Tubs	30
Concrete and Asphalt	24
Excavation and Grading	19
Utilities and Septic Systems	15
Walls and Fences	6
Landscaping and Sprinkler Systems	4
Safety	2

References

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

- Design and Control of Concrete Mixtures*, Fourteenth Edition, 2002, Portland Cement Association, 5420 Old Orchard Road, Skokie, IL 60077, www.cement.org.
- Guide to Shotcrete - ACI 506R-05*, 2005, American Concrete Institute (ACI), P.O. Box 9094, Farmington Hills, MI 48333, www.concrete.org.
- Certified Pool-Spa Operator Handbook*, 2007 Edition, National Swimming Pool Foundation (NSPF), 224 East Cheyenne Mountain Boulevard, Colorado Springs, CO 80906, www.nspf.com.
- Carpentry and Building Construction*, Sixth Edition, 2004, Glencoe Division of McGraw-Hill, Box 543, Blacklick, OH 43004-0544, www.glencoe.com.
- Arizona Blue Stake Center Pamphlet*, Arizona Blue Stake Center, 4415 South Wendler Drive, Suite 105, Tempe, AZ 85282-6410, www.azbluestake.com.
- Hot-Mix Asphalt Paving Handbook*, Second Edition, 2001, American Association of State Highway and Transportation Officials (AASHTO), P.O. Box 96716, Washington, DC 20090-6716, bookstore.transportation.org.
- Landscaping Principles and Practices*, Sixth Edition, 2004, Delmar Learning, P.O. Box 6904, Florence, KY 41022, www.delmarlearning.com.
- Moving the Earth*, Fifth Edition, 2005, McGraw-Hill Publishing, Inc., P.O. Box 182604, Columbus, OH 43272, books.mcgraw-hill.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.
- Placing Reinforcing Bars*, Eighth Edition, 2005, Concrete Reinforcing Steel Institute, Distribution Center, 933 North Plum Grove Road, Schaumburg, IL 60173-4758, www.crsi.org.
- Turf Irrigation Manual*, Fifth Edition, 1994, Telsco Industries - Weathermatic Publications, Irrigation Association, 6540 Arlington Boulevard, Falls Church, VA 22042-6638, www.irrigation.org.
- International Residential Code for One- and Two-Family Dwellings*, 2006, International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478-5795, www.iccsafe.org.
- 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.
- Uniform Plumbing Code*, 2006, International Association of Plumbing and Mechanical Officials (IAPMO), 5001 East Philadelphia Street, Ontario, CA 91761-2816, www.iapmo.org.
- Uniform Swimming Pool, Spa and Hot Tub Code*, 2006, International Association of Plumbing and Mechanical Officials (IAPMO), 5001 East Philadelphia Street, Ontario, Ca 91761-2816, www.iapmo.org.

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

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