

**ARIZONA REGISTRAR OF CONTRACTORS
KA DUAL ENGINEERING**

SCOPE OF WORK

To review the scope of work for a license classification, visit www.roc.az.gov/license-classifications

Examination	# of Questions	Minimum Passing Score	Time Allowed
KA Dual Engineering	100	70%	240 minutes

CONTENT OUTLINE

Subject Area	# of Items
Pools, Spas, and Hot Tubs	7
Hardscaping and Sprinkler Systems	7
Sewers	9
Water Piping	6
Gas Piping	6
Roofing	6
Insulation	6
Drywall	6
Concrete and Paving	13
Sitework, Excavation, Compaction, and Grading	13
Walls and Fences	5
Electrical Transmission Lines	5
Photovoltaic Systems	3
Safety	8

REFERENCE LIST

To find reference materials, you may use the link provided or search for the material online via a search engine such as Google. You may also go to PSI's online store at www.psionlinestore.com.

The reference material listed below was used to prepare the questions for this examination. The examination may also contain questions based on trade knowledge or general industry practices. **Except for Code books**, you can base your answers on later editions of references as they become available. For Code questions, the examinations will be based **only** on the edition of the Code book that is listed.

Candidates may use a silent, nonprinting, non-programmable calculator in the examination center.

The following reference material is allowed in the examination center:

Code of Federal Regulations - 29 CFR Part 1926 (OSHA), with latest available amendments, U.S. Government Printing Office, (866) 512-1800 or <https://www.osha.gov/laws-regs/regulations/standardnumber/1926>

OR

Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI, with latest available amendments, 3210 E Tropicana, Las Vegas, NV 89121, (800) 733-9267, www.psionlinestore.com

International Residential Code for One- and Two-Family Dwellings, 2009, 2012, 2015, or 2018, International Code Council, (800) 786-4452, www.iccsafe.org

ASME B31.8 - Gas Transmission and Distribution Systems, 2007 or 2014, American Society of Mechanical Engineers, 22 Law Drive, PO Box 2900, Fairfield NJ 07007, (800) 843-2763, www.asme.org

The following reference material is not allowed in the examination center:

Photovoltaic Systems, 2010 or 2012, James Dunlap, American Technical Publishers, Orland Park, IL 60467-5756, 800-323-3471, www.go2atp.com

Contractors Guide to Quality Concrete Construction, 2005 or 2018, ACI/ASCC, 38800 Country Club Drive, PO Box 9094, Farmington Hills, MI 48333, (248) 848-3700, www.concrete.org

DIPRA Installation Guide for Ductile Iron Pipe, 2000, 2007, 2012 or 2015, Ductile Iron Research Association, 245 Riverchase Parkway East, Suite O, Birmingham, AL 35244, (205) 4028700, www.dipra.org

Pipe and Excavation Contracting, Dave Roberts, 1987 or 2011, Craftsman Book Company, (800) 829-8123, www.craftsmanbook.com

Hot-Mix Asphalt Paving Handbook (MAPH-2), 2000, AASHTO, 444 North Capitol Street NW, Ste 249, Washington DC 20001, bookstore.transportation.org

Concrete Pipe and Box Culvert Installation Manual, 2007, American Concrete Pipe Association, 683 Grigsby Way, Cedar Hill, TX 75104, (972) 506-7216, ISBN: 960386825, www.concretetepipe.org

Lineman's and Cableman's Handbook, Shoemaker and Mack, 12th or 13th Edition, McGraw Hill, shop.mheducation.com

Construction Planning, Equipment, and Methods, Robert L. Peurifoy, Clifford J. Schexnayder, Aviad Shapira, 2005, 2010 or 2018, McGraw Hill, www.mhhe.com

Arizona 811: Arizona Blue Stake, Inc., July 2010, 1-800-STAKEIT (782-5348), www.arizona811.com

Certified Pool-Spa Operators Handbook, 2006 or 2014, National Swimming Pool Foundation, www.nspf.com

Fences and Retaining Walls, William McElroy, 1990 or 2012, Craftsman Book Company, (800) 829-8123, www.craftsmanbook.com

Simplified Irrigation Design, Pete Melby, 1995, 2nd Edition

Landscaping Principles and Practices, Jack E. Ingels, 2004 or 2009, www.cengage.com

Candidates are responsible for bringing their own references to the examination center. Reference materials may be highlighted, underlined, annotated and/or indexed prior to the examination session. However, references may not be written in during the examination session. Any candidate caught writing, highlighting, underlining and/or indexing in the references during the examination will be reported to the Arizona Registrar of Contractors. Furthermore, candidates are

not permitted to bring in any additional papers (loose or attached) with their approved references. References may be tabbed/indexed with permanent tabs only. (permanent tabs are defined as tabs that would tear the page if removed). Temporary tabs, (defined as Post-It notes, or other tabs that may be removed without tearing the page) are not allowed and must be removed from the reference before the exam will begin. If you are downloading from the Internet, you may bring this reference into the testing center with you as long as it is bound. You can have it spiral bound or you may hole-punch it and put it in a binder.