

A General Engineering (Commercial)

License Information

Scope – Construction in connection with fixed works, including streets, roads, power and utilities plants, dams, hydroelectric plants, sewage and waste disposal plants, bridges, tunnels and overpasses. Also included are the scopes of work allowed by all of the other engineering classifications, A-3 through A-21.

Examination Outline

Closed Book

100 Questions - Four-hour time limit

70% Correct required to pass

Exam Topic	%
Bridges/Miscellaneous Structures	19
Planning and Surveying	14
Earthwork	15
Utilities	13
Heavy Equipment	8
Canals, Reservoirs and Flood Control	9
Asphalt Pavement	5
Concrete Pavement	5
Estimating/Basis of Payment	5
Metal Barriers, Striping, Signs and Fences	3
Safety	4

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.
- 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.
- Manual on Uniform Traffic Control Devices (MUTCD), Parts 1, 5, & 6*, 2003 Edition, American Traffic Safety Services Association (ATSSA), 15 Riverside Parkway, Suite 100, Fredericksburg, VA 22406, www.atssa.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.
- Surveying*, Fifth Edition, 2003, Wiley Publishing, Inc., 10475 Crosspoint Blvd., Indianapolis, IN 46256, www.wiley.com.
- 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.
- Guide Specifications for Highway Construction*, Eighth Edition, 1998, American Association of State Highway and Transportation Officials (AASHTO), P.O. Box 96716, Washington, DC 20090-6716, bookstore.transportation.org.
- ANSI C2-2007-National Electrical Safety Code*, 2007, Institute of Electrical and Electronics Engineers (IEEE), 10662 Los Vaqueros Circle, P.O. Box 3014, Los Alamitos, CA 90720-1264, www.ieee.org.
- PEI/RP 100: Recommended Practices for Installation of Underground Liquid Storage Systems*, 2005, Petroleum Equipment Institute (PEI), P.O. Box 2380, Tulsa, OK 74101-2360, www.pei.org.
- Standards for Specifying Construction of Airports – Advisory Circular #AC 150/5370-10C*, 2007, Superintendent of Documents, P.O. Box 371954, Pittsburgh, PA 15250-7954, www.access.gpo.gov, www.faa.gov/regulations_policies.
- Turf Irrigation Manual*, Fifth Edition, 1994, Telsco Industries – Weathermatic Publications, 6540 Arlington Boulevard, Falls Church, VA 22042-6638, www.irrigation.org.
- Design and Construction of Urban Stormwater Management Systems*, 1993 Edition, American Society of Civil Engineers (ASCE), Book Orders, P.O. Box 79404, Baltimore, MD 21279-0404, www.pubs.asce.org.
- Excavation and Grading Handbook*, 2006, Craftsman Book Company, 6058 Corte del Cedro Carlsbad, CA 92009, www.craftsman-book.com.
- 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.

15. *Storm Water Management for Construction Activities – Summary Guidance (EPA 833-R-92-001)*, 1992 Edition, Environmental Protection Agency, Office of Water Resource Center (WRC), Mail Code RC-4100T, 1200 Pennsylvania Avenue, N.W. Washington, DC 20460, www.epa.gov/owm/catpub.htm.

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

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