

# A – General Engineering

## License Information

**Scope** – The exam covers the broad range of activities performed by a General Engineering Contractor as defined in Title 16, Chapter 77 of the “Hawaii Administrative Rules.” Examination questions are based on research of the accepted business and trade practices as determined by surveying current professionals in the field of General Engineering.

## Examination Outline

### Closed Book

**100 Questions - Four-hour time limit**

**75% Correct required to pass**

Exam Topic	%
Bridges/Miscellaneous Structures	15
Planning/Surveying	14
Earthwork	15
Utilities	13
Heavy Equipment	9
Canals, Reservoirs and Flood Control	10
Asphalt Pavement	6
Concrete Pavement	6
Estimating/Basis of Payment	5
Metal Barriers, Striping, Signs and Fences	3
Safety - OSHA	4

## References

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

1. *Code of Federal Regulations, Title 29, Part 1926 (OSHA)*, Revision July 1, 2008, Superintendent of Documents, P.O. Box 371954, Pittsburgh, PA 15250-7954, [www.access.gpo.gov](http://www.access.gpo.gov).
2. *Hawaii Standard Specifications for Road and Bridge Construction*, 2005, Hawaii Department of Transportation, Highways Division, 869 Punchbowl Street, Room 201, Honolulu, HI 96813, [www.state.hi.us/dot/highways](http://www.state.hi.us/dot/highways).
3. *Design and Control of Concrete Mixtures*, Fourteenth Edition, 2002, Portland Cement Association, 5420 Old Orchard Road, Skokie, IL 60077, [www.cement.org](http://www.cement.org).
4. *Excavation and Grading Handbook*, 2006, Craftsman Book Company, 6058 Corte del Cedro Carlsbad, CA 92009, [www.craftsman-book.com](http://www.craftsman-book.com).

5. *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](http://bookstore.transportation.org).
6. *Installation Guide for Ductile Iron Pipe*, 2007, Ductile Iron Pipe Research Association, 245 Riverchase Parkway East, Suite O, Birmingham, AL 35244, [www.dipra.org](http://www.dipra.org).
7. *ISEE Blasters' Handbook*, Seventeenth Edition, 1998, International Society of Explosives Engineers, The Blaster's Library, 30325 Bainbridge Road, Cleveland, OH 44139-2295, [www.isee.org](http://www.isee.org).
8. *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](http://www.atssa.com).
9. *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](http://vig.prenhall.com).

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

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