

Marine Construction

License Information

Scope – Tests a candidate's knowledge of the construction of seawalls, bulkheads, docks, piers, wharfs, piles, and other marine structures.

Examination Outline

Open Book

80 Questions**Time limit: 3 hours and 10 minutes****75% Correct required to pass**

Exam Topic	%
Sitework	25
Concrete	30
Piles	15
Timber Construction	20
Safety - OSHA	10

References

The following references **are allowed** in the testing center.

1. *2007 Florida Building Code: Building Volume*, Published 2008, International Code Council (ICC), 4051 West Flossmoor Road, Country Club Hills, IL 60478-5795, www.iccsafe.org.
2. *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.
3. *ASTM C 94/94M-07 – Standard Specification for Ready-Mixed Concrete*, 2007, American Society for Testing and Materials (ASTM), 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19428-2959, www.astm.org.
4. *Carpentry and Building Construction*, Sixth Edition, 2004, Glencoe Division of McGraw-Hill, Box 543, Blacklick, OH 43004-0544, www.glencoe.com.
5. *Construction Planning, Equipment, and Methods*, Seventh Edition, 2005, McGraw-Hill Publishing, Inc., P.O. Box 182604, Columbus, OH 43272, books.mcgraw-hill.com.
6. *Design and Control of Concrete Mixtures*, Fourteenth Edition, 2002, Portland Cement Association, 5420 Old Orchard Road, Skokie, IL 60077, www.cement.org.
7. *Placing Reinforcing Bars*, Eighth Edition, 2005, Concrete Reinforcing Steel Institute, Distribution Center, 933 North Plum Grove Road, Schaumburg, IL 60173-4758, www.crsi.org.
8. *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.

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

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Marine Contractor - RRE1V

Volusia County

Scope

A Marine Contractor means a person or firm qualified and certified to construct, install, maintain, repair, or alter seawalls, bulkheads, docks, piers, wharfs, piles, boat lifts, davits, boathouses, and other marine structures. A Marine Contractor shall not be required to subcontract the installation, or repair made under warranty, of wood shingles, wood shakes, asphalt, or fiberglass shingle roofing materials on a new structure of his or her own construction. Associated electrical, plumbing, and mechanical work may not be contracted for, subcontracted for, permitted or performed by specialty license holder. All associated electrical, plumbing, and mechanical work must be contracted for, permitted and performed by a certified or registered contractor.

Examination Content Outline

The Marine Contractor examination is based on trade-specific information pertaining to materials, tools, equipment, practices, terminology, and relevant laws. The examination is a two (2) hour, open book exam that consists of 50 questions.

Subjects:	No. of Items
Safety - Marine	5
Pile Driving	20
Concrete	10
Concrete - Reinforcing Steel	5
Roofing	10
Total:	50

Approved References

1. **Code of Federal Regulations – Title 29, Part 1926** (OSHA), 2010
2. **Construction Planning, Equipment and Methods**, 2002, 6th ed., R.L. Peurifoy
3. **Design and Control of Concrete Mixtures**, Kosmatka and Panarese, 14th Ed, 2002 with 2008 rev.
4. **Placing Reinforcing Bars**, 9th Edition, 2011
5. **Roofing Construction and Estimating**, 1995, D. Atcheson
6. **Architectural Sheet Metal Manual**, 7th edition, 2012

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Marine Contractors are those who are qualified with the experience and skill to construct, maintain, alter, install or repair seawalls, bulkheads, revetments, docks, piers, wharfs, groins, boat lifts, davits and other marine structures, including pile driving.

Number of Questions	75
Time allowed (hours)	3
Subject Area	# Quest.
Plan Reading & Estimating	6
Sitework	10
Concrete and Reinforcement	10
Piles	10
Carpentry	10
Safety	9
Florida Building Code application to Marine Structures	10
Structures	10

References

- **Code of Federal Regulations, Title 29, Part 1926**, 2012. ISBN: 9780160911576. Superintendent of Documents, P.O. Box 371954, Pittsburgh, PA 15250-7954. Available at <http://bookstore.gpo.gov>. Candidate printed versions permitted in testing room if exam is open book.
- **DESIGN OF COASTAL REVETMENTS, SEAWALLS, AND BULKHEADS**, 1995. US Army Corps of Engineers, Washington, DC. Available at <http://www.dtic.mil/cgi-bin/GetTRDoc?AD=ADA402873>. Candidate printed versions permitted in testing room if exam is open book.
- **FLDOT Structures Detailing Manual, 2013**, 2013. State of Florida, 2600 Blair Stone Road M.S. 3500, Tallahassee, FL 32399. http://www.dot.state.fl.us/structures/StructuresManual/CurrentRelease/Vol2_SDM.pdf Candidate printed versions allowed if exam is open book.
- **Florida Building Code 2010 - Building**, 2010. ISBN: Item #:5601L10. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478. Available at www.iccsafe.org.
- **Fundamentals of Hydraulic Dredging**, ISBN: 9780784401477. American Society of Civil Engineers, P.O. Box 79404, Baltimore, MD 21279-0404. Available at www.asce.org.
- **Pile Design and Construction Practice**, 5th. ISBN: 978-0415385824. Taylor and Francis, 270 Madison Avenue, New York, NY 10016. Available at www.taylorandfrancis.com.
- **Standard Specifications for Road and Bridge Constr**, 2013. State of Florida, 2600 Blair Stone Road M.S. 3500, Tallahassee, FL 32399. Available at www.dot.state.fl.us. Candidate printed versions allowed if exam is open book.
- **Study Guide for General Engineering, 2nd Edition**, 2012. ISBN: 978-1-269-23864-9. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at www.provbookstore.com.
- **The Dock Manual: Designing/Building/Maintaining**, 1999. ISBN: 978-1-58017-098-7. Storey Publishing, 210 MASS MoCA Way, North Adams, MA 01247.