

MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT - EXAM DESCRIPTIONS

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Asphalt Sealing Engineering Contractor

An Asphalt Sealing (excluding roadway pavements) Contractor is an engineering contractor who has a qualifying agent with the experience and skill gained by not less than one (1) year as a general superintendent for an engineering contractor and/or the education equivalent thereto, or a combination thereof, and qualified and certified to seal driveways and parking lots only; if cracks, holes or any repair is needed, it must be done by a certified Paving Contractor.

Number of Questions	50
Time allowed (hours)	2

Subject Area	# Quest.
Asphalt Principles & Properties	4
Use & Application of Asphalt Emulsions	18
Asphalt Surface Treatments	18
Asphalt Preservation & Maintenance	5
Safety	5

References

- **Basic Safety.** ISBN: 9781323676189. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at www.provbookstore.com.
- **MS-16 Asphalt in Pavement, Preservation & Maintenance,** 4th edition, 2009. ISBN: 978-1-934154-58-8. The Asphalt Institute, 2696 Research Park Drive, Lexington, KY 40511-8480. Available at www.asphaltinstitute.org.
- **MS-19 Basic Asphalt Emulsion Manual,** 4th edition. ISBN: 978-1-934154-56-4. The Asphalt Institute, 2696 Research Park Drive, Lexington, KY 40511-8480. Available at www.asphaltinstitute.org.

Building Contractor

Building Contractor means a contractor whose services are limited to construction of commercial and single-dwelling or multiple-dwelling residential buildings, which commercial or residential buildings do not exceed three stories in height, and accessory use structures in connection therewith or a contractor whose services are limited to remodeling, repair, or improvement of any size building if the services do not affect the structural members of the building. As regulated under Florida Statute, a person who has passed a competency

examination as a Building Contractor may perform these or related tasks or may supervise persons in his employ in the execution of these tasks.

Number of Questions	70
Time allowed (hours)	3
Subject Area	# Quest.
Plan Reading & Estimating	11
Sitework	6
Concrete	11
Masonry	10
Structural Steel	5
Carpentry & Metal Framing	5
Roofing	5
Associated Trades	3
Interior Finishes	5
Exterior Finishes	5
Safety	4

References

- **ACI 530 Building Code Requirements and Specification for Masonry Structures 2013**, 2013. ISBN: 978-1-929081-43-1. American Concrete Institute, 38800 International Way, Country Club Dr, P.O. Box 9094, Farmington Hills, MI 48333. Available at <http://www.concrete.org> OR <http://www.techstreet.com/searches/16672726> OR amazon.com
- **Concrete Construction Level 2**, 2021. ISBN: 978-0-13-689832-0. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. <http://nconstructionbooks.com/store/product.aspx?isbn=0136868282> OR <https://provexam.com/bookstore/>.
- **Florida Building Code 2020 - Building**, 2020. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478. www.iccsafe.org
- **Study Guide for Commercial Carpentry, 2nd Edition**, 2014. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116.
- **Study Guide for Structural Steel**, 2012. ISBN: 978-1-269-08432-1. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at www.provbookstore.com.

Burglar Alarm Electrical 2017 (Spanish)

Tests a candidate's knowledge of the design, installation, maintenance, and alteration of burglar alarm circuits and equipment.

Number of Questions	50
Time allowed (hours)	2
Subject Area	# Quest.
Acoustical Installation	10
General Electrical Knowledge	5
Intrusion Detection	17
Notification Appliances & Signaling Circuits	9
Power Supplies	5
Supervisory Stations	4

References

- **American Electrician's Handbook**, 17th Edition. ISBN: 978-1260457919. McGraw Hill Publishing Inc., P.O. Box 182604, Columbus,

OH 43272. Available at <https://www.mhprofessional.com/american-electricians-handbook-seventeenth-edition-9781260457919-usa>

- **Low Voltage Wiring: Security/Fire-Alarm Systems**, 2001. ISBN: 978-0071376747. McGraw Hill Glencoe Order Services, P.O. Box 545, Blacklick, OH 43004. Available at www.amazon.com.
- **NFPA 70 - National Electric Code 2017**, 2017. ISBN: 978-145591277-3. National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471. Available at www.nfpa.org.
- **Understanding and Servicing Alarm Systems**, 3rd Ed., 1999. ISBN: 978-0750672061. Butterworth-Heinemann, 225 Wildwood Ave., Woburn, MA 01801. Available at www.amazon.com.

Business Procedures, 2nd edition

Tests a candidate's knowledge of payroll taxes, workers' compensation, unemployment compensation, lien laws and other laws or subjects that will affect their daily operations as contractors.

Number of Questions	75
Time allowed (hours)	3

Subject Area	# Quest.
Business Organization	3
Licensing	3
Lien laws	4
Tax Laws	5
Safety OSHA	8
Labor Laws	8
Contract Management	10
Project Management	8
Estimating & Bidding	6
Financial Management	9
Risk Management	6
Dade County Municipal Code - Chapter 10	5

References

- **Dade County Municipal Code - Chapter 10**, 2015. Dade County Florida, FL. Available at www.municode.com/Library/FL/Miami_-_Dade_County. Candidate printed versions permitted in testing room if exam is open ...
- **FLORIDA - NASCLA Contractors Guide to Business, Law and Project Management**, 2nd. NASCLA, 23309 N. 17th Drive, Building 1, Unit 110, Phoenix, AZ 85027.

Business Procedures, 2nd edition (Spanish)

Tests a candidate's knowledge of payroll taxes, workers' compensation, unemployment compensation, lien laws and other laws or subjects that will affect their daily operations as contractors.

Number of Questions	75
Time allowed (hours)	3

Subject Area	# Quest.
Business Organization	3
Lien laws	4
Labor Laws	8
Tax Laws	5
Safety OSHA	5

Licensing	3
Contract Management	10
Project Management	8
Estimating & Bidding	9
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Concrete Contractor

The Concrete Contractor exam tests the candidate's knowledge of the properties, preparation, formwork, reinforcement, placement and the finishing of concrete, including materials, specialized installations and finishes, and concrete quality control and curing. This scope of work includes, but is not limited to concrete piers, foundations, walls, structures, slabs, curbs, sidewalks, and driveways. The scope of work excludes the installation of pool, spa, or hot tub decks; separate licensure is required. {Florida Administrative Code 61G4-15.032(B)(e)}

Number of Questions	50
Time allowed (hours)	2
Subject Area	# Quest.
Plan Reading & Estimating	6
Properties of Concrete	4
Preparation for Placement	6
Reinforcement	7
Formwork	7
Placement & Finishing	7
Specialized Installations & Finishes	3
Quality Control & Curing	5
Safety	5

References

- **ACI 318 Building Code Requirements for Structural Concrete 2019**, 2019. American Concrete Institute, 38800 International Way, Country Club Dr, P.O. Box 9094, Farmington Hills, MI 48333.
- **Concrete Construction Level 1**, 2021. ISBN: 978-0-13-686828-6. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. <http://nccer.pearsonconstructionbooks.com/store/product.aspx?isbn=0136868282> OR <https://provexam.com/bookstore/>.
- **Concrete Construction Level 2**, 2021. ISBN: 978-0-13-689832-0. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. <http://nccer.pearsonconstructionbooks.com/store/product.aspx?isbn=0136868282> OR <https://provexam.com/bookstore/>.

Concrete Works Engineering

A Concrete Work Engineering Contractor is an engineering contractor who has a qualifying agent with the experience and skill gained by not less than one (1) year as a general superintendent for a building or engineering contractor, or education equivalent thereto, or a combination thereof, and qualified and certified to construct concrete driveways, sidewalks, curbs and gutters and related nonstructural concrete components.

Number of Questions	50
Time allowed (hours)	2
Subject Area	# Quest.
Plan Reading & Estimating	5
Properties of Concrete	10
Preparation for Placement	9
Reinforcement	4
Placement & Finishing	9
Quality Control & Curing	10
Safety	3

References

- **Concrete Finishing Level One**, 1998. ISBN: 978-0-13-010246-1. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at <http://nccer.pearsonconstructionbooks.com>.
- **Concrete Finishing Level Two**, 1999. ISBN: 978-0-13-014860-5. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at <http://nccer.pearsonconstructionbooks.com>.
- **Damage Prevention Guide**. Sunshine State One Call of Florida, Inc., 11 Plantation Road, DeBary, FL 32713. Available at <http://www.sunshine811.com/> Candidate printed versions permitted in testing room if exam is open book.
- **Public Works Manual Dade County, Florida**. Public Works Department of Metropolitan Dade County, 111 NW 1st St. Suite 1600, Miami, FL 33128-1970. (This manual includes three books: Public Works Manual Part 1: Standard Details, Public Works Manual Part 2: Design and Construction, and Public Works Manual Part 3: Water Supply and Sanitary Sewer Details)To purchase call: Miami-Dade County, Public Works and Waste Management Dept., Reproduction Services 305-375-2690.
- **Standard Specifications for Road and Bridge Construction**. 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.

Custom Excavation & Grading & Paving & Pipeline & Plant Engineering 2015

General Engineering Contractor is an engineering contractor whose contracting business consists of the execution of contracts involving two (2) or more trades and who has the financial means, and who has a qualifying agent with the art, ability, experience, knowledge, science and skill gained by not less than ten (10) years' experience either as a superintendent for a General Engineering Contractor or as a licensed building or engineering contractor for such period (or has had an education equivalent thereto) or any combination thereof, to construct and properly supervise, direct and coordinate work in the engineering trade in such a manner as to comply with all plans, specifications,

codes, laws and regulations applicable, and who has satisfactorily passed a General Engineering Contractor's examination. The scope of work of the General Engineering Contractor shall be unlimited in the engineering trade field, except that his work in connection with utilities shall be considered to stop at a point five (5) feet from a building not specifically constructed for the purpose of pumping or processing pipeline products. Such contractor shall subcontract to a qualified contractor

Number of Questions	96
Time allowed (hours)	3
Subject Area	# Quest.
Excavation & Grading Engineering	24
Paving Engineering	24
Pipeline Engineering	24
Plant Construction Engineering	24

References

- **ACI 318 Building Code Requirements for Structural Concrete 2014**, 2014. ISBN: 978-0-87031-930-3. American Concrete Institute, 38800 International Way, Country Club Dr, P.O. Box 9094, Farmington Hills, MI 48333. Available at <http://www.concrete.org/>.
- **Damage Prevention Guide**. Sunshine State One Call of Florida, Inc., 11 Plantation Road, DeBary, FL 32713. Available at <http://www.sunshine811.com/> Candidate printed versions permitted in testing room if exam is open book.
- **Florida Building Code 2017 - Building**, 2017. ISBN: 978-1-60983-687-0. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478. www.iccsafe.org
- **Fundamentals of Hydraulic Dredging**, 1996. ISBN: 9780784401477. American Society of Civil Engineers, 1800 Alexander Bell Drive, Reston, VA 20191. <https://www.asce.org/templates/publications-book-detail.aspx?id=7971>
- **MS-19 Basic Asphalt Emulsion Manual**, 4th edition. ISBN: 978-1-934154-56-4. The Asphalt Institute, 2696 Research Park Drive, Lexington, KY 40511-8480. Available at www.asphaltinstitute.org.
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- **Study Guide for Excavation Contractors, 2nd edition**, 2014. ISBN: 978-1-269-78572-3. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at www.provbookstore.com
- **Study Guide for General Engineering, 3rd edition**, 2014. ISBN: 978-1-269-78657-7. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at www.provbookstore.com.

Custom Excavation & Grading & Paving & Pipeline Engineering 2015

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Number of Questions	72
Time allowed (hours)	3
Subject Area	# Quest.
Excavation & Grading Engineering	24
Paving Engineering	24
Pipeline Engineering	24

References

- **ACI 318 Building Code Requirements for Structural Concrete 2014**, 2014. ISBN: 978-0-87031-930-3. American Concrete Institute, 38800 International Way, Country Club Dr, P.O. Box 9094, Farmington Hills, MI 48333. Available at <http://www.concrete.org/>.
- **Damage Prevention Guide**. Sunshine State One Call of Florida, Inc., 11 Plantation Road, DeBary, FL 32713. Available at <http://www.sunshine811.com/> Candidate printed versions permitted in testing room if exam is open book.
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Number of Questions 96
Time allowed (hours) 3

Subject Area	# Quest.
Excavation & Grading Engineering	24
Pipeline Engineering	24
Plant Construction Engineering	24
Structural Engineering	24

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Custom Excavation & Grading & Pipeline & Plant Construction Engineering 2015

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Number of Questions	72
Time allowed (hours)	3
Subject Area	# Quest.
Excavation & Grading Engineering	24
Pipeline Engineering	24
Plant Construction Engineering	24

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Number of Questions	72
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Subject Area	# Quest.
Excavation & Grading Engineering	24
Pipeline Engineering	24
Structural Engineering	24

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Number of Questions	48
Time allowed (hours)	3
Subject Area	# Quest.
Excavation & Grading Engineering	24
Pipeline Engineering	24

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Subject Area	# Quest.
Excavation & Grading Engineering	24
Plant Construction Engineering	24
Structural Engineering	24

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Time allowed (hours)	3
Subject Area	# Quest.
Excavation & Grading Engineering	24
Plant Construction Engineering	24

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Subject Area	# Quest.
Excavation & Grading Engineering	24
Structural Engineering	24

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Number of Questions	24
Time allowed (hours)	3
Subject Area	# Quest.
Excavation & Grading Engineering	24

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Custom Excavation & Grading, Paving, & Plant Construction & Structural Engineering 2015

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Number of Questions	96
Time allowed (hours)	3
Subject Area	# Quest.
Excavation & Grading Engineering	24
Paving Engineering	24
Plant Construction Engineering	24
Structural Engineering	24

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- **MS-16 Asphalt in Pavement, Preservation & Maintenance**, 4th edition, 2009. ISBN: 978-1-934154-58-8. The Asphalt Institute, 2696 Research Park Drive, Lexington, KY 40511-8480. Available at www.asphaltinstitute.org.
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Custom General Engineering Contractor V3 2015

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Number of Questions	120
Time allowed (hours)	3
Subject Area	# Quest.
Excavation & Grading Engineering	24
Paving Engineering	24
Pipeline Engineering	24
Plant Construction Engineering	24
Structural Engineering	24

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- **Public Works Manual Dade County, Florida**. Public Works Department of Metropolitan Dade County, 111 NW 1st St. Suite 1600, Miami, FL 33128-1970. (This manual includes three books: Public Works Manual Part 1: Standard Details, Public Works Manual Part 2: Design and Construction, and Public Works Manual Part 3: Water Supply and Sanitary Sewer Details)To purchase call: Miami-Dade County, Public Works and Waste Management Dept., Reproduction Services 305-375-2690.
- **Study Guide for General Engineering, 3rd edition**, 2014. ISBN: 978-1-269-78657-7. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at www.provbookstore.com.

Custom Structural Engineering 2015

General Engineering Contractor is an engineering contractor whose contracting business consists of the execution of contracts involving two (2) or more trades and who has the financial means, and who has a qualifying agent with the art, ability, experience, knowledge, science and skill gained by not less than ten (10) years' experience either as a superintendent for a General Engineering Contractor or as a licensed building or engineering contractor for such period (or has had an education equivalent thereto) or any combination thereof, to construct and properly supervise, direct and coordinate work in the engineering trade in such a manner as to comply with all plans, specifications, codes, laws and regulations applicable, and who has satisfactorily passed a General Engineering Contractor's examination. The scope of work of the General Engineering Contractor shall be unlimited in the engineering trade field, except that his work in connection with utilities shall be considered to stop at a point five (5) feet from a building not specifically constructed for the purpose of pumping or processing pipeline products. Such contractor shall subcontract to a qualified contractor

Number of Questions	24
Time allowed (hours)	3
Subject Area	# Quest.
Structural Engineering	24

References

- **Florida Building Code 2017 - Building**, 2017. ISBN: 978-1-60983-687-0. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478. www.iccsafe.org
- **Standard Specifications for Road & Bridge Construction 15**, 2015. 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 Commercial Carpentry, 2nd Edition**, 2014. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116.
- **Study Guide for Excavation Contractors, 2nd edition**, 2014. ISBN: 978-1-269-78572-3. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at www.provbookstore.com
- **Study Guide for General Engineering, 3rd edition**, 2014. ISBN: 978-1-269-78657-7. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at www.provbookstore.com
- **Study Guide for Structural Steel**, 2012. ISBN: 978-1-269-08432-1. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at www.provbookstore.com.

Excavation and Grading Engineering Contractor

An Excavating and Grading Engineering Contractor is an engineering contractor who has a qualifying agent with the experience and skill gained by not less than two (2) years as a general superintendent for an engineering contractor or education equivalent thereto, or a combination thereof, and certified to make excavations, to obtain or remove materials such as rock, gravel or sand, to construct or excavate canals, lakes, levees, roadways, including land clearing, filling and grading. An Excavating and Grading Engineering Contractor may do the work of a Land Clearing and Grubbing Engineering Contractor.

Number of Questions	50
Time allowed (hours)	2
Subject Area	# Quest.
Plan Reading & Estimating	7
General Knowledge	7
Survey & Layout	5
Clearing & Grubbing	5
Excavating	9
Dewatering	3
Grading	8
Safety	6

References

- **Basic Safety.** ISBN: 9781323676189. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at www.provbookstore.com.
- **Damage Prevention Guide.** Sunshine State One Call of Florida, Inc., 11 Plantation Road, DeBary, FL 32713. Available at <http://www.sunshine811.com/> Candidate printed versions permitted in testing room if exam is open book.
- **Introduction to Construction Math,** 2009. ISBN: 978-0-13-609877-5. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at <http://nccer.pearsonconstructionbooks.com>.
- **Introduction to the Trade.** ISBN: 978-0-13-064886-0. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. <http://nccer.pearsonconstructionbooks.com>
- **Public Works Manual Part 2: Design and Construction.** Public Works Department of Metropolitan Dade County, 111 NW 1st St. Suite 1600, Miami, FL 33128-1970. To purchase call: Miami-Dade County, Public Works and Waste Management Dept., Reproduction Services 305-375-2690.
- **Standard Specifications for Road and Bridge Construction,** 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 Excavation Contractors, 2nd edition,** 2014. ISBN: 978-1-269-78572-3. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at www.provbookstore.com.

Excavation and Grading Engineering Contractor (Spanish)

An Excavating and Grading Engineering Contractor is an engineering contractor who has a qualifying agent with the experience and skill gained by not less than two (2) years as a general superintendent for an engineering contractor or education equivalent thereto, or a combination thereof, and certified to make excavations, to obtain or remove materials such as rock, gravel or sand, to construct or excavate canals, lakes, levees, roadways, including land clearing, filling and grading. An Excavating and Grading Engineering Contractor may do the work of a Land Clearing and Grubbing Engineering Contractor.

Number of Questions	50
Time allowed (hours)	2
Subject Area	# Quest.
Plan Reading & Estimating	7
General Knowledge	7
Survey & Layout	5

Clearing & Grubbing	5
Excavating	9
Dewatering	3
Grading	8
Safety	6

References

- **Basic Safety.** ISBN: 9781323676189. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at www.provbookstore.com.
- **Damage Prevention Guide.** Sunshine State One Call of Florida, Inc., 11 Plantation Road, DeBary, FL 32713. Available at <http://www.sunshine811.com/> Candidate printed versions permitted in testing room if exam is open book.
- **Introduction to Construction Math,** 2009. ISBN: 978-0-13-609877-5. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at <http://nccer.pearsonconstructionbooks.com>.
- **Introduction to the Trade.** ISBN: 978-0-13-064886-0. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. <http://nccer.pearsonconstructionbooks.com>
- **Public Works Manual Part 2: Design and Construction.** Public Works Department of Metropolitan Dade County, 111 NW 1st St. Suite 1600, Miami, FL 33128-1970. To purchase call: Miami-Dade County, Public Works and Waste Management Dept., Reproduction Services 305-375-2690.
- **Standard Specifications for Road and Bridge Construction,** 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 Excavation Contractors, 2nd edition,** 2014. ISBN: 978-1-269-78572-3. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at www.provbookstore.com.

Fuel Transmission & Distribution Engineering Contractor

A Fuel Transmission & Distribution Line Engineering Contractor is qualified and certified to excavate for and construct , alter, repair and maintain transmission and distribution lines for liquid or gaseous fuels under pressure in welded pipes, including pumping & booster stations, valves, meters & similar components incidental thereto and restoration of pavement. The scope of work of a fuel transmission & distribution line engineering contractor shall be considered to stop at the metering device.

Number of Questions	50
Time allowed (hours)	2

Subject Area	# Quest.
Code Compliance	10
Piping	8
Field & Control Center Operations	6
Pipeline Maintenance, Electrical, & Corrosion Control	11
Pavement	5
Safety & Equipment	10

References

- **Apply and Repair External Coatings on Buried and S.** Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at <http://nccer.pearsonconstructionbooks.com>.
- **Cathodic Protection Measurement.** Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at <http://nccer.pearsonconstructionbooks.com>.
- **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. OSHA Standards for the Construction Industry is permitted as a substitute for this book.
- **Code of Federal Regulations, Title 49 Part 192,** 2011. Superintendent of Documents, P.O. Box 371954, Pittsburgh, PA 15250-7954. available at www.provexam.com/bookstore
- **Excavating and Backfilling.** Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at <http://nccer.pearsonconstructionbooks.com>.
- **Exposure Techniques.** Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at <http://nccer.pearsonconstructionbooks.com>.
- **Heavy Equipment Safety,** 2012. ISBN: 0-13-292306-8. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at <http://nccer.pearsonconstructionbooks.com>.
- **IDENTIFY, INSTALL, AND MAINTAIN VALVES (CTS 19.1-19.4),** 2002. NCCER MATS Testing, 13614 Progress Blvd, Alachua, FL 32615.
- **Pipefitting Level Two,** 2006. ISBN: 978-0-13-227314-5. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at <http://nccer.pearsonconstructionbooks.com>.
- **Pipeline Corrosion Control Level Two,** 2002. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at <http://nccer.pearsonconstructionbooks.com>.
- **Pipeline Damage Inspection.** Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at <http://nccer.pearsonconstructionbooks.com>.
- **Pipeline Maintenance Level Two,** 2002. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at <http://nccer.pearsonconstructionbooks.com>.
- **Relocating and Lowering Pipelines,** 2002. ISBN: 978-0-13-103160-9. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at <http://nccer.pearsonconstructionbooks.com>.

Land Clearing and Grubbing Engineering Contractor

A Land Clearing and Grubbing Engineering Contractor is an engineering contractor who has a qualifying agent with the experience and skill gained by not less than one (1) year as a general superintendent for an engineering contractor or education equivalent thereto, or a combination thereof, and qualified and certified to clear land of surface debris and vegetation growth, including the grubbing of roots, the removal of the debris there from and the general leveling of the surface thereafter and work incidental thereto.

Number of Questions	50
Time allowed (hours)	2
Subject Area	# Quest.
Plan Reading & Estimating	8
General Knowledge	9
Soils	8

Clearing & Grubbing	9
Grading	10
Safety	6

References

- **Damage Prevention Guide.** Sunshine State One Call of Florida, Inc., 11 Plantation Road, DeBary, FL 32713. Available at <http://www.sunshine811.com/> Candidate printed versions permitted in testing room if exam is open book.
- **Standard Specifications for Road and Bridge Construction,** 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 Excavation Contractors, 2nd edition,** 2014. ISBN: 978-1-269-78572-3. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at www.provbookstore.com.

Paving Engineering Contractor

A Paving Engineering Contractor is an engineering contractor who has a qualifying agent with the experience and skill gained by not less than three (3) years as a general superintendent for an engineering contractor or education equivalent thereto, or a combination thereof, and qualified and certified to construct roads, airport runways, and aprons, parking lots, sidewalks, curbs and gutters, property line walls, storm drainage facilities and to perform the excavating, clearing and grading incidental thereto. A Paving Engineering Contractor may not excavate for canals and lakes.

Number of Questions	50
Time allowed (hours)	2
Subject Area	# Quest.
Plans & Specifications	6
Earthwork, Compaction & Stabilization	8
Asphalt Paving Procedures	14
Asphalt Properties and General Uses	4
Use & Application of Asphalt Emulsions	4
Concrete and Reinforcement	10
Safety	4

References

- **Damage Prevention Guide.** Sunshine State One Call of Florida, Inc., 11 Plantation Road, DeBary, FL 32713. Available at <http://www.sunshine811.com/> Candidate printed versions permitted in testing room if exam is open book.
- **Highway/Heavy Construction Level 1.** ISBN: 978-0-13-061611-1. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at <http://nccer.pearsonconstructionbooks.com>.
- **Introduction to Construction Math,** 2009. ISBN: 978-0-13-609877-5. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at <http://nccer.pearsonconstructionbooks.com>.
- **MS-16 Asphalt in Pavement, Preservation & Maintenance,** 4th edition, 2009. ISBN: 978-1-934154-58-8. The Asphalt Institute, 2696 Research Park Drive, Lexington, KY 40511-8480. Available at www.asphaltinstitute.org.

- **MS-19 Basic Asphalt Emulsion Manual**, 4th edition. ISBN: 978-1-934154-56-4. The Asphalt Institute, 2696 Research Park Drive, Lexington, KY 40511-8480. Available at www.asphaltinstitute.org.
- **Public Works Manual Dade County, Florida**. Public Works Department of Metropolitan Dade County, 111 NW 1st St. Suite 1600, Miami, FL 33128-1970. (This manual includes three books: Public Works Manual Part 1: Standard Details, Public Works Manual Part 2: Design and Construction, and Public Works Manual Part 3: Water Supply and Sanitary Sewer Details)To purchase call: Miami-Dade County, Public Works and Waste Management Dept., Reproduction Services 305-375-2690.
- **Standard Specifications for Road and Bridge Construction**. 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.

Paving Engineering Contractor (Spanish)

A Paving Engineering Contractor is an engineering contractor who has a qualifying agent with the experience and skill gained by not less than three (3) years as a general superintendent for an engineering contractor or education equivalent thereto, or a combination thereof, and qualified and certified to construct roads, airport runways, and aprons, parking lots, sidewalks, curbs and gutters, property line walls, storm drainage facilities and to perform the excavating, clearing and grading incidental thereto. A Paving Engineering Contractor may not excavate for canals and lakes.

Number of Questions	50
Time allowed (hours)	2
Subject Area	# Quest.
Plans & Specifications	6
Earthwork, Compaction & Stabilization	8
Asphalt Paving Procedures	14
Asphalt Properties and General Uses	4
Use & Application of Asphalt Emulsions	4
Concrete and Reinforcement	10
Safety	4

References

- **Damage Prevention Guide**. Sunshine State One Call of Florida, Inc., 11 Plantation Road, DeBary, FL 32713. Available at <http://www.sunshine811.com/> Candidate printed versions permitted in testing room if exam is open book.
- **Highway/Heavy Construction Level 1**. ISBN: 978-0-13-061611-1. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at <http://nccer.pearsonconstructionbooks.com>.
- **Introduction to Construction Math**, 2009. ISBN: 978-0-13-609877-5. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at <http://nccer.pearsonconstructionbooks.com>.
- **MS-16 Asphalt in Pavement, Preservation & Maintenance**, 4th edition, 2009. ISBN: 978-1-934154-58-8. The Asphalt Institute, 2696 Research Park Drive, Lexington, KY 40511-8480. Available at www.asphaltinstitute.org.
- **MS-19 Basic Asphalt Emulsion Manual**, 4th edition. ISBN: 978-1-934154-56-4. The Asphalt Institute, 2696 Research Park Drive, Lexington, KY 40511-8480. Available at www.asphaltinstitute.org.

- **Public Works Manual Dade County, Florida**. Public Works Department of Metropolitan Dade County, 111 NW 1st St. Suite 1600, Miami, FL 33128-1970. (This manual includes three books: Public Works Manual Part 1: Standard Details, Public Works Manual Part 2: Design and Construction, and Public Works Manual Part 3: Water Supply and Sanitary Sewer Details)To purchase call: Miami-Dade County, Public Works and Waste Management Dept., Reproduction Services 305-375-2690.
- **Standard Specifications for Road and Bridge Construction**. 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.

Pile Driving & Foundation Engineering Contractor

A Pile Driving & Foundation Engineering Contractor is an engineering contractor who has a qualifying agent with the experience and skill gained by not less than two (2) years as a general superintendent for a general building or general engineering contractor or education equivalent thereto, or a combination thereof, and qualified and certified to drive piling including sheet piling and construct foundations including the excavating, forming and placing of reinforcing steel and concrete and perform other work incidental thereto.

Number of Questions	50
Time allowed (hours)	2
Subject Area	# Quest.
Sitework and Soils	5
Excavating	5
Foundations & Piling	10
Concrete Forming, Reinforcement & Placing	10
Pile Installation	10
Estimating and Plan Reading	6
Safety & Rigging	4

References

- **ACI 318 Building Code Requirements for Structural Concrete 2014**, 2014. ISBN: 978-0-87031-930-3. American Concrete Institute, 38800 International Way, Country Club Dr, P.O. Box 9094, Farmington Hills, MI 48333. Available at <http://www.concrete.org/>.
- **Basic Rigging**, 2009. ISBN: 978-0-13-609916-1. NCCER MATS Testing, 13614 Progress Blvd, Alachua, FL 32615. <http://nccer.pearsonconstructionbooks.com>
- **Basic Safety**. ISBN: 9781323676189. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at www.provbookstore.com.
- **Concrete Finishing Level One**, 1998. ISBN: 978-0-13-010246-1. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at <http://nccer.pearsonconstructionbooks.com>.
- **Damage Prevention Guide**. Sunshine State One Call of Florida, Inc., 11 Plantation Road, DeBary, FL 32713. Available at <http://www.sunshine811.com/> Candidate printed versions permitted in testing room if exam is open book.
- **Florida Building Code 2017 - Building**, 2017. ISBN: 978-1-60983-687-0. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478. www.iccsafe.org

- **Pile Design and Construction Practice**, 5th. ISBN: 978-0415385824. Taylor and Francis, 270 Madison Avenue, New York, NY 10016. Available at www.Contractor-books.com
- **Standard Specifications for Road and Bridge Construction**, 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.
- **Structures**, 2001. ISBN: 978-0-13-064895-2. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at <http://nccer.pearsonconstructionbooks.com>.
- **Study Guide for Excavation Contractors, 2nd edition**, 2014. ISBN: 978-1-269-78572-3. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at www.provbookstore.com.

Pipeline Engineering Contractor

A Pipeline Engineering Contractor is an engineering contractor who has a qualifying agent who is qualified by the experience and skill gained by not less than three (3) years as a general superintendent for a general engineering contractor or pipeline engineering contractor or education equivalent thereto, or a combination thereof and certified to excavate, construct, install, repair or alter pipelines, such as water and gas transmission and distribution lines, storm and sanitary sewerage lines, force mains, outfalls, and pumping facilities incidental to the collection or installation of pipeline products including the equipment and piping installation and placing within a structure which is constructed for the purpose of pumping or processing such pipeline products. A Pipeline Engineering Contractor may construct or install junction boxes, manholes, inlets, valves and similar components, in such a manner as to comply with all plans, specifications, codes, laws and regulations applicable. The work of the Pipeline Engineering Contractor shall be considered to stop at a point five (5) feet from a building not specifically constructed for the purpose of pumping or processing pipeline products. The scope of work of such a contractor does not include the installation of chilled water lines or related work incidental thereto. (Ord. No. 71-69, ? 1, 8-31-71)

Number of Questions	50
Time allowed (hours)	2
Subject Area	# Quest.
Plan Reading & Estimating	6
Excavation & Underground Pipe Installation	8
Piping & Valves	6
Concrete Pipe & Structures	10
Ductile Iron Pipe	6
Fiberglass & Plastic Pipe	8
Safety	6

References

- **ACI 318 Building Code Requirements for Structural Concrete 2014**, 2014. ISBN: 978-0-87031-930-3. American Concrete Institute, 38800 International Way, Country Club Dr, P.O. Box 9094, Farmington Hills, MI 48333. Available at <http://www.concrete.org/>.
- **Basic Safety**. ISBN: 9781323676189. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at www.provbookstore.com.
- **Damage Prevention Guide**. Sunshine State One Call of Florida, Inc., 11 Plantation Road, DeBary, FL 32713. Available at

<http://www.sunshine811.com/> Candidate printed versions permitted in testing room if exam is open book.

- **Pipefitting Level One**, 2019. ISBN: 978-0-13-580941-9. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at <http://nccer.pearsonconstructionbooks.com>.
- **Pipefitting Level Three**, 2019. ISBN: 978-0-13-748728-8. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at <http://nccer.pearsonconstructionbooks.com>.
- **Pipefitting Level Two**, 2019. ISBN: 978-0-13-581811-4. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at <http://nccer.pearsonconstructionbooks.com>.
- **Public Works Manual Dade County, Florida**. Public Works Department of Metropolitan Dade County, 111 NW 1st St. Suite 1600, Miami, FL 33128-1970. (This manual includes three books: Public Works Manual Part 1: Standard Details, Public Works Manual Part 2: Design and Construction, and Public Works Manual Part 3: Water Supply and Sanitary Sewer Details)To purchase call: Miami-Dade County, Public Works and Waste Management Dept., Reproduction Services 305-375-2690.
- **Standard Specifications for Road and Bridge Construction**. 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.
- **Underground Pipe**, 2019. ISBN: 978-0-13-613604-0. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. To order individual modules, call 1-800-922-0579 (Option #2 for individual orders).

Plant Construction Engineering Contractor

A Plant Construction Engineer Contractor is an engineering contractor who has a qualifying agent with the experience and skill gained but not less than three (3) years as a general superintendent for a general building or general engineering contractor or education equivalent thereto, or a combination thereof, and certified to construct and properly supervise, direct and coordinate the construction of buildings, plants and other structures which are incidental to water treatment plants, sewage treatment plants, pumping and lift stations, power generating plants and sub-station, including the equipment and piping installation (except the exclusive work of an electrical contractor) and placing therein in connection with the purpose for which the structure is being erected. A Plant Construction Engineering Contractor may perform the work of a pile driving and foundation engineering contractor.

Number of Questions	50
Time allowed (hours)	2
Subject Area	# Quest.
Excavation, Sitework & Grading	5
Foundations & Piling	5
Concrete	6
Structural Elements	12
Piping & Valves	10
Plan Reading & Estimating	8
Safety & Rigging	4

References

- **ACI 318 Building Code Requirements for Structural Concrete 2014**, 2014. ISBN: 978-0-87031-930-3. American Concrete Institute, 38800

International Way, Country Club Dr, P.O. Box 9094, Farmington Hills, MI 48333. Available at <http://www.concrete.org/>.

- **Basic Safety.** ISBN: 9781323676189. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at www.provbookstore.com.
- **Damage Prevention Guide.** Sunshine State One Call of Florida, Inc., 11 Plantation Road, DeBary, FL 32713. Available at <http://www.sunshine811.com/> Candidate printed versions permitted in testing room if exam is open book.
- **Florida Building Code 2017 - Building,** 2017. ISBN: 978-1-60983-687-0. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478. www.iccsafe.org
- **Public Works Manual Dade County, Florida.** Public Works Department of Metropolitan Dade County, 111 NW 1st St. Suite 1600, Miami, FL 33128-1970. (This manual includes three books: Public Works Manual Part 1: Standard Details, Public Works Manual Part 2: Design and Construction, and Public Works Manual Part 3: Water Supply and Sanitary Sewer Details)To purchase call: Miami-Dade County, Public Works and Waste Management Dept., Reproduction Services 305-375-2690.
- **Study Guide for General Engineering, 3rd edition,** 2014. ISBN: 978-1-269-78657-7. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at www.provbookstore.com
- **Study Guide for Pipefitters.** ISBN: 978-1-269-26208-8. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at <http://nccer.pearsonconstructionbooks.com>
- **Study Guide for Structural Steel,** 2012. ISBN: 978-1-269-08432-1. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at www.provbookstore.com.

Railroad Construction Engineering Contractor

A Railroad Construction Engineering Contractor is an engineering contractor who has a qualifying agent with the experience and skill gained by not less than two (2) years in railroad construction, or education equivalent thereto, or a combination thereof, and qualified to construct railroads, including spur lines and sidings and all incidental work such as grading, placing ballast, track laying and installation of switch equipment.

Number of Questions	100
Time allowed (hours)	4
Subject Area	# Quest.
Volume 1, Chapter 5: Track	20
Volume 1, Chapter 4: Rail	14
Volume 1, Chapter 1: Roadways and Ballast	20
Volume 1, Chapter 30: Ties	8
Volume 2, Chapter 7: Timber Structures	8
Volume 2, Chapter 8 Concrete Structures & Foundations	10
Volume 2, Chapter 15: Steel Structures	4
Volume 3, Chapter 6: Buildings & Support Facilities	4
Volume 3, Chapters 11 & 12: Rail Transit Systems	8
Volume 3, Chapter 33: Electrical Energy Utilization	4

References

- **Manual for Railway Engineering 2014 Volume 1,** 2014. American Railway Engineering and Maintenance-of-Way Association, 4501 Forbes Blvd, Suite 130, Lanham, MD 20706.
- **Manual for Railway Engineering 2014 Volume 2,** 2014. American Railway Engineering and Maintenance-of-Way Association, 4501 Forbes Blvd, Suite 130, Lanham, MD 20706.
- **Manual for Railway Engineering 2014 Volume 3,** 2014. American Railway Engineering and Maintenance-of-Way Association, 4501 Forbes Blvd, Suite 130, Lanham, MD 20706.

Sea-walls & Small Docks Engineering

A Seawall and Small Dock Engineering Contractor is an engineering contractor who has a qualifying agent with the experience and skill gained by not less than two (2) years as a general superintendent for an engineering contractor or education equivalent thereto, or a combination thereof, and qualified and certified to construct seawalls and small docks. A seawall and small dock engineering contractor may drive piling for one (1) story building construction.

Number of Questions	50
Time allowed (hours)	2
Subject Area	# Quest.
Seawalls: Concrete and Sheet Pile	15
Pile Driving	15
Carpentry	15
Safety	5

References

- **Basic Safety.** ISBN: 9781323676189. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at www.provbookstore.com.
- **Carpentry Level Three,** 2007. ISBN: 978-0-13-228600-8. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at <http://nccer.pearsonconstructionbooks.com>.
- **Design of coastal revetments, seawalls, and bulkheads,** 1995. US Army Corps of Engineers, Washington, DC. Available at <http://www.delmar.ca.us/DocumentCenter/View/1899> Candidate printed versions permitted in testing room if exam is open book.
- **Florida Building Code 2017 - Building,** 2017. ISBN: 978-1-60983-687-0. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478. www.iccsafe.org
- **Pile Design and Construction Practice,** 5th. ISBN: 978-0415385824. Taylor and Francis, 270 Madison Avenue, New York, NY 10016. Available at www.Contractors-books.com
- **Public Works Manual Dade County, Florida.** Public Works Department of Metropolitan Dade County, 111 NW 1st St. Suite 1600, Miami, FL 33128-1970. (This manual includes three books: Public Works Manual Part 1: Standard Details, Public Works Manual Part 2: Design and Construction, and Public Works Manual Part 3: Water Supply and Sanitary Sewer Details)To purchase call: Miami-Dade County, Public Works and Waste Management Dept., Reproduction Services 305-375-2690.

Soil Compaction & Tamping Engineering Contractor

A Soil Compaction and Tamping Engineering Contractor is an engineering contractor who has a qualifying agent with the experience and skill gained by not less than six (6) months as a general superintendent for a building or engineering contractor, or education equivalent thereto, or a combination thereof, and qualified and certified to compact fill in or surrounding buildings, bridges and trenches.

Number of Questions	50
Time allowed (hours)	2
Subject Area	# Quest.
Compaction & Tamping	12
Grades	8
Plan Reading and Excavation Math	5
Safety	7
Soils	18

References

- **ASTM Manual 70 Quality Control of Soil Compaction Using ASTM Standards**, 2011. ISBN: 978-0-8031-8888-4. American Society for Testing and Materials, 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19428-2959. Available at <http://www.astm.org/>.
- **Damage Prevention Guide**. Sunshine State One Call of Florida, Inc., 11 Plantation Road, DeBary, FL 32713. Available at <http://www.sunshine811.com/>. Candidate printed versions permitted in testing room if exam is open book.
- **Study Guide for Excavation Contractors, 2nd edition**, 2014. ISBN: 978-1-269-78572-3. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at www.provbookstore.com.

Structural Engineering Contractor

A Structural Engineering Contractor is an engineering contractor who has a qualifying agent with the experience and skill gained by not less than three (3) years as a general superintendent for a general building or a general engineering contractor or education equivalent thereto, or a combination thereof, and qualified and certified to construct and properly supervise and direct the construction of bridges, tunnels, overpasses, harbor facilities, docks, shipyards, bulkheads, retaining walls, seawalls, dams, locks and similar structures. A Structural Engineering Contractor may perform the work of a Seawall and Small Dock Engineering Contractor, a Pile Driving and Foundation Engineering Contractor, and a Concrete Work Engineering Contractor.

Number of Questions	50
Time allowed (hours)	2
Subject Area	# Quest.
Sitework and Soils	7
Excavating	6
Foundations & Piling	6
Concrete	10
Structural Elements	10
Plan Reading & Estimating	4
Safety	7

References

- **Basic Safety**. ISBN: 9781323676189. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at www.provbookstore.com.
- **Damage Prevention Guide**. Sunshine State One Call of Florida, Inc., 11 Plantation Road, DeBary, FL 32713. Available at <http://www.sunshine811.com/>. Candidate printed versions permitted in testing room if exam is open book.
- **Florida Building Code 2017 - Building**, 2017. ISBN: 978-1-60983-687-0. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478. www.iccsafe.org
- **Public Works Manual Dade County, Florida**. Public Works Department of Metropolitan Dade County, 111 NW 1st St. Suite 1600, Miami, FL 33128-1970. (This manual includes three books: Public Works Manual Part 1: Standard Details, Public Works Manual Part 2: Design and Construction, and Public Works Manual Part 3: Water Supply and Sanitary Sewer Details)To purchase call: Miami-Dade County, Public Works and Waste Management Dept., Reproduction Services 305-375-2690.
- **Standard Specifications for Road and Bridge Construction**, 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 Commercial Carpentry, 2nd Edition**, 2014. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116.
- **Study Guide for Excavation Contractors, 2nd edition**, 2014. ISBN: 978-1-269-78572-3. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at www.provbookstore.com
- **Study Guide for General Engineering, 3rd edition**, 2014. ISBN: 978-1-269-78657-7. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at www.provbookstore.com
- **Study Guide for Structural Steel**, 2012. ISBN: 978-1-269-08432-1. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at www.provbookstore.com.

Underground Electric & Communications Conduits Engineer

An underground electrical and communications conduits engineering contractor is qualified and certified to trench, backfill and restore paving and concrete block and cement work incidental to or a part of the work in the construction of manholes and splice pits, laying of rigid conduit for electrical communication lines. The scope of work of this classification shall be limited to that work directly involved in performing contract work for the construction of underground electrical and communication facilities.

Number of Questions	50
Time allowed (hours)	2
Subject Area	# Quest.
Plan Reading & Estimating	5
Earthwork	7
Underground Conduit Assembly & Installation	9
Concrete Forming, Reinforcement & Placing	8
Paving	4
Electrical	7
Splicing and Terminations	5

References

- **Dade County Municipal Code - Chapter 8**, 2012. Dade County Florida, FL. Available at www.municode.com/Library/FL/Miami_-_Dade_County. Candidate printed versions permitted in testing room if exam is open book.
- **Damage Prevention Guide**. Sunshine State One Call of Florida, Inc., 11 Plantation Road, DeBary, FL 32713. Available at <http://www.sunshine811.com/> Candidate printed versions permitted in testing room if exam is open book.
- **FL DOT Utility Accommodation Manual**, 2010. State of Florida, 2600 Blair Stone Road M.S. 3500, Tallahassee, FL 32399. Available at www2.dot.state.fl.us/proceduraldocuments/procedures/bin/710020001/710020001.pdf. Candidate printed versions permitted in testing room if exam is open book.
- **NFPA 70 - National Electrical Code**, 2011. National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471. Available at www.nfpa.org.
- **Public Works Manual Part 1: Standard Details**. Public Works Department of Metropolitan Dade County, 111 NW 1st St. Suite 1600, Miami, FL 33128-1970. To purchase call: Miami-Dade County, Public Works and Waste Management Dept., Reproduction Services 305-375-2690.
- **Public Works Manual Part 2: Design and Construction**. Public Works Department of Metropolitan Dade County, 111 NW 1st St. Suite 1600, Miami, FL 33128-1970. To purchase call: Miami-Dade County, Public Works and Waste Management Dept., Reproduction Services 305-375-2690.
- **Study Guide for Excavation Contractors, 2nd edition**, 2014. ISBN: 978-1-269-78572-3. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at www.provbookstore.com
- **Study Guide for General Engineering, 3rd edition**, 2014. ISBN: 978-1-269-78657-7. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at www.provbookstore.com
- **The Lineman's and Cableman's Handbook**, 2011. ISBN: 978-0071742580. McGraw Hill Publishing Inc., P.O. Box 182604, Columbus, OH 43272. Available at www.mcgraw-hill.com.