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ALUMINUM NON-STRUCTURAL

A Siding Contractor is qualified to install siding and similar accessories. As regulated under Florida Statute, a person who has passed a competency examination as a Siding Contractor may perform these or related tasks or may supervise persons in his employ in the execution of these tasks.

| | |
|-----------------------------|-----------|
| Number of Questions | 25 |
| Time allowed (hours) | 2 |

| Subject Area | # Quest. |
|---------------------------|-----------------|
| Acoustical Installation | 8 |
| Materials | 8 |
| Plan Reading & Estimating | 3 |
| Safety | 3 |
| Substrates | 3 |

References

- **Basic Safety.** ISBN: 9781323676189. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at www.provbookstore.com.
- **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
- **Florida Building Code 2017 - Residential,** 2017. ISBN: 978-1-60983-692-4. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478. www.iccsafe.org
- **Study Guide for Residential Carpentry & Repair, 2nd edition,** 2014. ISBN: 978-1-269-78561-7. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at www.provbookstore.com

ALUMINUM WITHOUT CONCRETE

fabricate, assemble, handle, erect, install, dismantle, adjust, alter, repair, service and design-- if not prohibited by law and in accordance with accepted engineering data and manufacturer specifications: screened porches, screened enclosures, pool enclosures, preformed panel-post, beam roofs, mobile home panel roof-overs, residential glass window and door enclosures, vinyl panel window enclosures, single story self-contained aluminum utility storage structures (not to exceed 500 square feet) siding, soffit, fascia, gutters, wood work incidental to the aluminum construction work (limited to construction of wood framing for the walls of uninhabitable utility storage structures, raised wood decks for enclosures, repair or replacement of wood incidental to the installation of glass windows and doors, siding, soffit, fascia, gutters, preformed panel-post and beam roofs).

| | |
|-----------------------------|-----------|
| Number of Questions | 50 |
| Time allowed (hours) | 2 |

| Subject Area | # Quest. |
|---------------------------------------|-----------------|
| Plan Reading & Estimating | 7 |
| Carpentry, Windows & Doors | 8 |
| Siding, Soffit & Fascia | 8 |
| Screen Enclosures | 7 |
| Screen Rooms, Carports & Patio Covers | 8 |

| | |
|---|---|
| Miscellaneous Aluminum Structures & Gutters | 7 |
| Safety | 5 |

References

- **AAF Guide to Aluminum Construction in High Wind Areas**, 2010. Aluminum Association of Florida, 13165 McCrory Place, Suite 185, Orlando, FL 33432. Available at <http://www.aaof.org/>. (Also permitted is the Guide to Aluminum Construction in High-Wind Area ASCE7 Supplement to the 2010 Guide)
- **ASTM D4756-06 Standard Practice for Installation of Rigid PVC Siding & Soffit**, 2006. 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/>. Candidate printed versions allowed if exam is open book.
- **Basic Safety**. ISBN: 9781323676189. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at www.provbookstore.com.
- **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
- **Study Guide for Residential Carpentry & Repair, 2nd edition**, 2014. ISBN: 978-1-269-78561-7. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at www.provbookstore.com

BUSINESS AND LAW (ENGLISH OR 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 | 50 |
| Time allowed (hours) | 2 |
| Subject Area | # Quest. |
| Business Organization | 2 |
| Licensing | 3 |
| Lien laws | 2 |
| Tax Laws | 5 |
| Safety OSHA | 3 |
| Labor Laws | 8 |
| Contract Management | 9 |
| Project Management | 6 |
| Estimating & Bidding | 4 |
| Financial Management | 5 |
| Risk Management | 3 |

References

- **FLORIDA - NASCLA Contractors Guide to Business, Law and Project Management**, 1st. ISBN: 1-934234-92-3 OR 978-1-934234-92-1. NASCLA, 23309 N. 17th Drive, Building 1, Unit 110, Phoenix, AZ 85027. Available at www.nascla.org or www.provbookstore.com. Please note, the Florida Business and Law Study Guide for Contractors (published by Prov) is permitted as a substitute.

CABINET INSTALLATION & MILLWORK CONTRACTOR

assemble, install, dismantle, maintain, adjust, alter, extend and design, where not prohibited by law, cabinets and millwork and corian and cultured marble style counter tops.

| | |
|----------------------------------|-----------------|
| Number of Questions | 50 |
| Time allowed (hours) | 2 |
| Subject Area | # Quest. |
| Plan Reading & Estimating | 5 |
| Cabinet and Millwork Fabrication | 8 |
| Cabinet Installation | 8 |
| Millwork Installation | 8 |
| Cabinet & Millwork Finishing | 8 |
| Countertops | 6 |
| Safety | 7 |

References

- **Basic Safety**. ISBN: 9781323676189. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at www.provbookstore.com.
- **Carpentry Level One**, 2006. ISBN: 978-0-13-229268-9. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at <http://nccer.pearsonconstructionbooks.com>.
- **Carpentry Level Two**, 2007. ISBN: 978-0-13-614410-6. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at <http://nccer.pearsonconstructionbooks.com>.
- **The Complete Guide to Cabinets and Countertops**. Black and Decker, Quayside Publishing Group DBA Cool Springs Press, 400 First Avenue North Suite 400, Minneapolis, MN 55401. <http://www.homedepot.com1591865896/204758064>
- **The New Wood Finishing Book, Revised Edition**, 2010. ISBN: 1561582999. The Taunton Press, 63 South Main St., P.O. Box 5506, Newton, CT 06470. <http://www.amazon.com/Wood-Finishing-Book-Revised-Edition/dp/1561582999>

CARPENTRY (ENGLISH OR SPANISH)

Tests a candidate's knowledge of light and heavy carpentry, rough framing, trusses, sheathing, metal framing, paneling, trim, cabinetry, doors, windows, stairs, and incidental hardware

| | |
|-------------------------------|-----------------|
| Number of Questions | 50 |
| Time allowed (hours) | 3 |
| Subject Area | # Quest. |
| Plan Reading & Estimating | 6 |
| Floor Systems | 4 |
| Wall & Ceiling Framing | 8 |
| Roof Framing | 8 |
| Thermal & Moisture Protection | 4 |
| Exterior Finishing | 4 |
| Cold-Formed Steel Framing | 5 |
| Windows, Doors & Stairs | 4 |
| Interior Trim | 2 |
| Safety | 5 |

References

- **Basic Safety.** ISBN: 9781323676189. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at www.provbookstore.com.
- **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
- **Study Guide for Residential Carpentry & Repair, 2nd edition,** 2014. ISBN: 978-1-269-78561-7. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at www.provbookstore.com

COMMERCIAL PAVING

Tests a candidate's knowledge of the construction of roads, airport runways and aprons, parking lots, sidewalks, curbs and gutters, property line walls, patios and driveways, storm drainage facilities, and the performance of related excavating and grading.

| | |
|-----------------------------|-----------|
| Number of Questions | 50 |
| Time allowed (hours) | 3 |

| Subject Area | # Quest. |
|--|-----------------|
| Plans & Specifications | 3 |
| Survey & Layout | 3 |
| Earthwork, Compaction & Stabilization | 5 |
| Asphalt Paving Procedures | 7 |
| Asphalt Properties and General Uses | 7 |
| Use & Application of Asphalt Emulsions | 7 |
| Asphalt Preservation & Maintenance | 7 |
| Concrete and Reinforcement | 8 |
| Safety | 3 |

References

- **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>.
- **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.
- **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.

CONCRETE FORMING AND PLACING (ENGLISH OR SPANISH)

Tests a candidate's knowledge of the components, construction and installation of horizontal and vertical formwork, both site built and prefabricated as well as the installation of reinforcement. Includes the placement and finishing of concrete in forms or on grade and shoring and reshoring of horizontal formwork.

| | |
|-----------------------------|-----------|
| Number of Questions | 50 |
| Time allowed (hours) | 2 |

| Subject Area | # Quest. |
|---------------------|-----------------|
|---------------------|-----------------|

| | |
|--------------------------------------|---|
| Plan Reading & Estimating | 6 |
| Properties of Concrete | 6 |
| Preparation for Placement | 5 |
| Reinforcement | 6 |
| Formwork | 5 |
| Placement & Finishing | 8 |
| Specialized Installations & Finishes | 3 |
| Quality Control & Curing | 6 |
| Safety | 5 |

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/>.
- **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>.

CONCRETE PLACING AND FINISHING

Concrete Placing and Finishing Contractor means a contractor whose services are generally limited to pouring, placing and finishing concrete flatwork (floors, slabs on grade, sidewalks, etc.) including placement of edge forms, mesh reinforcement and plastic vapor barriers incidental thereto.

| | |
|-----------------------------|-----------|
| Number of Questions | 40 |
| Time allowed (hours) | 2 |

| Subject Area | # Quest. |
|--------------------------------------|-----------------|
| Plan Reading & Estimating | 4 |
| Properties of Concrete | 6 |
| Preparation for Placement | 5 |
| Reinforcement | 3 |
| Placement & Finishing | 8 |
| Specialized Installations & Finishes | 4 |
| Quality Control & Curing | 6 |
| Safety | 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/>.
- **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>.

DEMOLITION (ENGLISH OR SPANISH)

Tests a candidate's knowledge of demolition and removal of structures and buildings. Tests a candidate's knowledge of demolition of structural steel, structural concrete, masonry and structural wood framing. Emphasis on cranes and crane safety as well as explosives and explosive safety. Focuses on interpreting plans and understanding of how components of various structures are assembled. Covers single and multi-story buildings and structures of the types mentioned above.

Number of Questions 50
Time allowed (hours) 2

| Subject Area | # Quest. |
|-------------------------------|----------|
| Plan Reading & Interpretation | 6 |
| Structural Concrete | 5 |
| Structural Masonry | 5 |
| Structural Framing | 4 |
| Structural Steel | 6 |
| Blasting | 6 |
| Rigging and Cranes | 8 |
| Safety | 10 |

References

- **Carpentry Level One**, 2006. ISBN: 978-0-13-229268-9. 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.
- **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
- **Ironworking Level One**, 2011. ISBN: 978-0-13-213714-0. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at <http://nccer.pearsonconstructionbooks.com>.
- **ISEE Blasters' Handbook**. ISBN: 978-1892396006. International Society of Explosives Engineers, 30325 Bainbridge Road, Cleveland, OH 44139. Available at www.isee.org.
- **Masonry Level One**, 2004. ISBN: 978-0-13-228718-0. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at <http://nccer.pearsonconstructionbooks.com>.

ELECTRICAL SIGN CONTRACTOR 2011

The scope of certification includes the structural fabrication including concrete foundation, erection, installation, alteration, repair, service and wiring of electrical signs and outline lighting. The scope of certification shall not include the provision of, or any electrical work beyond, the last disconnect mean or terminal points. However, a contractor certified under this section may provide the electrical entrance requirements for metering and main disconnect of remote billboards or signs which are independent of any structure or building and which require no more than twenty-five (25) kilowatts at two hundred fifty (250) volts maximum (61G6-7.001).

Number of Questions 40

Time allowed (hours) 2

| Subject Area | # Quest. |
|-------------------------------------|----------|
| Basic Electricity & Wiring | 6 |
| Electrical Signs & Outline Lighting | 16 |
| Grounding & Bonding | 4 |
| Motors & Controls | 3 |
| Transformers | 3 |
| Wiring & Protection | 4 |
| Wiring Methods & Materials | 4 |

References

- **American Electricians' Handbook**, 15th Edition. ISBN: 978-0-07-149462-5. McGraw Hill Glencoe Order Services, P.O. Box 545, Blacklick, OH 43004. Available at www.amazon.com
- **NFPA 70 - National Electrical Code**, 2011. National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471. Available at www.nfpa.org.

EXCAVATION CONTRACTOR

Tests a candidate's knowledge of the excavation or removal of materials such as rock, gravel and sand to construct or excavate canals, lakes, levees, including the clearing of land of surface debris; and vegetation, the grubbing of roots, the removal of debris; and leveling of related surfaces.

Number of Questions 50
Time allowed (hours) 2

| Subject Area | # Quest. |
|---------------------------|----------|
| Plan Reading & Estimating | 10 |
| General Knowledge | 6 |
| Survey & Layout | 5 |
| Clearing & Grubbing | 4 |
| Excavating | 7 |
| Dewatering | 3 |
| Grading | 8 |
| Safety | 7 |

References

- **Basic Safety**. ISBN: 9781323676189. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at www.provbookstore.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

FENCE (ENGLISH OR SPANISH)

Tests a candidate's knowledge of fencing installation.

Number of Questions 50
Time allowed (hours) 2

| Subject Area | # Quest. |
|---------------------------|----------|
| Plan Reading & Estimating | 5 |
| Layout & General Math | 5 |

| | |
|----------------------------|----|
| Wood Fencing | 10 |
| Masonry Fencing | 10 |
| Metal & Chain Link Fencing | 10 |
| Safety | 10 |

References

- **Basic Safety.** ISBN: 9781323676189. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at www.provbookstore.com.
- **Fences and Retaining Walls,** 1990. ISBN: 0-934041-53-9. Craftsman Book Company, 6058 Corte Del Cedro, Carlsbad, CA 92009. Available at www.craftsman-book.com.
- **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

FINISH CARPENTRY

Tests a candidate's knowledge of finish carpentry construction materials and methods including trim installation.

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|-----------------------------|-----------|
| Number of Questions | 50 |
| Time allowed (hours) | 2 |

| Subject Area | # Quest. |
|---|----------|
| Plan Reading & Estimating | 6 |
| Building Materials, Fasteners & Adhesives | 8 |
| Windows & Exterior Doors | 5 |
| Exterior Finishing | 5 |
| Doors & Hardware | 8 |
| Interior Trim | 8 |
| Cabinet Installation | 5 |
| Safety | 5 |

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
- **Study Guide for Siding & Finish Carpentry,** 2012. ISBN: 978-1-256-61081-6. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at www.provbookstore.com.

GARAGE DOOR INSTALLER CONTRACTOR

A Garage door installer is a person or firm qualified and certified to install, maintain, repair, alter or extend residential or commercial garage doors, including all hardware and operating devices. One-hundred-twenty-volt electrical installation required for the door operating devices may be included in the contract for work but must be subcontracted to a certified or registered electrical contractor.

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|-----------------------------|-----------|
| Number of Questions | 50 |
| Time allowed (hours) | 2 |

| Subject Area | # Quest. |
|---|----------|
| Garage Doors Installation | 18 |
| Garage Doors, Materials & Hardware | 17 |
| Garage Door Service, Repair & Maintenance | 9 |

| | |
|--------|---|
| Safety | 6 |
|--------|---|

References

- **Basic Safety.** ISBN: 9781323676189. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at www.provbookstore.com.
- **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
- **TDS 151 - General Code Inspection Guidelines for Garage Doors.** Door and Access Systems Manufacturers Association International, 1300 Sumner Avenue, Cleveland, OH 44115-7333. Available at <http://www.dasma.com/PubTechData.asp>. Candidate printed versions allowed if exam is open book.
- **TDS 156 - Standard Wood Header and Jamb Detail Guidelines.** Door and Access Systems Manufacturers Association International, 1300 Sumner Avenue, Cleveland, OH 44115-7333. Available at <http://www.dasma.com/PubTechData.asp>. Candidate printed versions allowed if exam is open book
- **TDS 157 - Garage Doors and Foam Plastic.** Door and Access Systems Manufacturers Association International, 1300 Sumner Avenue, Cleveland, OH 44115-7333. Available at <http://www.dasma.com/PubTechData.asp>. Candidate printed versions allowed if exam is open book
- **TDS 158 - Glazing in Garage Doors.** Door and Access Systems Manufacturers Association International, 1300 Sumner Avenue, Cleveland, OH 44115-7333. Available at <http://www.dasma.com/PubTechData.asp>. Candidate printed versions allowed if exam is open book
- **TDS 160 - Sectional Garage Door Terminology.** Door and Access Systems Manufacturers Association International, 1300 Sumner Avenue, Cleveland, OH 44115-7333. Available at <http://www.dasma.com/PubTechData.asp>. Candidate printed versions allowed if exam is open book
- **TDS 161 - Connecting Garage Door Jambs to Building Framing.** Door and Access Systems Manufacturers Association International, 1300 Sumner Avenue, Cleveland, OH 44115-7333. Available at <http://www.dasma.com/PubTechData.asp>. Candidate printed versions allowed if exam is open book
- **TDS 162 - Wood Door Finishing Guidelines.** Door and Access Systems Manufacturers Association International, 1300 Sumner Avenue, Cleveland, OH 44115-7333. Available at <http://www.dasma.com/PubTechData.asp>. Candidate printed versions allowed if exam is open book
- **TDS 163 - Garage Door R-Value.** Door and Access Systems Manufacturers Association International, 1300 Sumner Avenue, Cleveland, OH 44115-7333. Available at <http://www.dasma.com/PubTechData.asp>. Candidate printed versions allowed if exam is open book
- **TDS 164 - Drywall Surfaces and the Mounting of Garage Door Hardware.** Door and Access Systems Manufacturers Association International, 1300 Sumner Avenue, Cleveland, OH 44115-7333. Available at <http://www.dasma.com/PubTechData.asp>. Candidate printed versions allowed if exam is open book
- **TDS 165 - Garage Door Manual Operation.** Door and Access Systems Manufacturers Association International, 1300 Sumner Avenue, Cleveland, OH 44115-7333. Available at <http://www.dasma.com/PubTechData.asp>. Candidate printed versions allowed if exam is open book
- **TDS 166 - Guidelines for Connecting a Drawbar Operator to a Sectional Garage Door.** Door and Access Systems Manufacturers Association

International, 1300 Sumner Avenue, Cleveland, OH 44115-7333. Available at <http://www.dasma.com/PubTechData.asp>. Candidate printed versions allowed if exam is open book.

- **TDS 167 - Sectional Garage Door & Electric Operator Checklist for Home Inspectors and Consumers.** Door and Access Systems Manufacturers Association International, 1300 Sumner Avenue, Cleveland, OH 44115-7333. Available at <http://www.dasma.com/PubTechData.asp>. Candidate printed versions allowed if exam is open book
- **TDS 172 - Garage Door Labels.** Door and Access Systems Manufacturers Association International, 1300 Sumner Avenue, Cleveland, OH 44115-7333. Available at <http://www.dasma.com/PubTechData.asp>. Candidate printed versions allowed if exam is open book
- **TDS 179 - Wood Garage Door Inspection and Maintenance Guidelines.** Door and Access Systems Manufacturers Association International, 1300 Sumner Avenue, Cleveland, OH 44115-7333. Available at <http://www.dasma.com/PubTechData.asp>. Candidate printed versions allowed if exam is open book
- **TDS 181 - General Code Inspection Guidelines For Wind Load Rated Garage Doors.** Door and Access Systems Manufacturers Association International, 1300 Sumner Avenue, Cleveland, OH 44115-7333. Available at <http://www.dasma.com/PubTechData.asp>. Candidate printed versions allowed if exam is open book
- **TDS 182 - Technical Considerations for Dock Doors.** Door and Access Systems Manufacturers Association International, 1300 Sumner Avenue, Cleveland, OH 44115-7333. Available at <http://www.dasma.com/PubTechData.asp>. Candidate printed versions allowed if exam is open book
- **TDS 260 - Common Rolling Steel Door Installation Problems.** Door and Access Systems Manufacturers Association International, 1300 Sumner Avenue, Cleveland, OH 44115-7333. Available at <http://www.dasma.com/PubTechData.asp>. Candidate printed versions allowed if exam is open book
- **TDS 270 - Recommended Rolling Door Maintenance Practices for Building Maintenance Supervisors.** Door and Access Systems Manufacturers Association International, 1300 Sumner Avenue, Cleveland, OH 44115-7333. Available at <http://www.dasma.com/PubTechData.asp>. Candidate printed versions allowed if exam is open book

GLASS & GLAZING

Those who are qualified to select, cut, assemble, and install all makes and kinds of glass and glasswork and execute the glazing of frames, panels, sash and door and holding metal frames, ornamental decoration, mirrors, tub and shower enclosures.

| | |
|-----------------------------|-----------------|
| Number of Questions | 50 |
| Time allowed (hours) | 2 |
| Subject Area | # Quest. |
| Plan Reading & Estimating | 5 |
| Glass & Glazing | 12 |
| Plastic & Glazing | 4 |
| Sealants | 10 |
| Curtain Walls | 6 |
| Structural Glazing Systems | 4 |
| Bath Enclosures & Mirrors | 4 |
| Safety | 5 |

References

- **Basic Safety.** ISBN: 9781323676189. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at www.provbookstore.com.
- **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
- **GANA Glazing Manual,** 50th Anniversary Edition. Glass Association of North America, 800 SW Jackson Street, STE. 1500, Ste. A, Topeka, KS 66612-1200. Available at www.glasswebsite.com.
- **GANA Sealant Manual,** 2008. Glass Association of North America, 800 SW Jackson Street, STE. 1500, Ste. A, Topeka, KS 66612-1200.

IRRIGATION SPRINKLER (ENGLISH OR SPANISH)

A Master Lawn Sprinkler is qualified and certified to install, maintain, repair, alter or extend a lawn sprinkling system and appliances and devices used in connection with such systems, except that such systems shall not include the drilling of wells or the connecting of such systems to potable water. Sprinkler and irrigation systems used for agricultural purposes shall not be included within the scope of this subsection.

| | |
|---|-----------------|
| Number of Questions | 50 |
| Time allowed (hours) | 2 |
| Subject Area | # Quest. |
| Plan Reading & Estimating | 6 |
| Planning & Layout | 8 |
| Materials | 6 |
| Controls | 6 |
| Irrigation Installation | 10 |
| Cross Contamination & Backflow Prevention | 5 |
| Reclaimed Water | 4 |
| Safety | 5 |

References

- **Basic Safety.** ISBN: 9781323676189. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at www.provbookstore.com.
- **Florida Administrative Code, Ch. 62-610, Reuse of Reclaimed Water & Land Application,** 2012. State of Florida, 2600 Blair Stone Road M.S. 3500, Tallahassee, FL 32399. <http://www.dep.state.fl.us/legal/Rules/wastewater/62-610.pdf> Candidate printed versions permitted in testing room if exam is open book.
- **Florida Building Code 2017 - Plumbing,** 2017. ISBN: 978-1-60983-689-4. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478. www.iccsafe.org
- **Turf Irrigation Manual - The Complete Guide to Landscape Irrigation Design,** 5th Ed., 1994. ISBN: 978-0963509604. Weathermatic, P.O. Box 180205, Dallas, TX 75218-0205. Available at www.amazon.com.

JOURNEYMAN ELECTRICIAN (ENGLISH OR SPANISH) 2011

A Journeyman Electrician is qualified and tested to perform work in the electrical trades while employed by a Master Electrician.

| | |
|-----------------------------|-----------|
| Number of Questions | 70 |
| Time allowed (hours) | 3 |

| Subject Area | # Quest. |
|--|-----------------|
| Communication Systems | 4 |
| Equipment for General Use | 6 |
| General Electrical Theory & Principles | 9 |
| Motors & Controls | 3 |
| Plan Reading | 4 |
| Special Conditions | 3 |
| Special Equipment | 3 |
| Special Occupancies | 2 |
| Wiring & Protection | 14 |
| Wiring Methods & Materials | 22 |

References

- **American Electricians' Handbook**, 15th Edition. ISBN: 978-0-07-149462-5. McGraw Hill Glencoe Order Services, P.O. Box 545, Blacklick, OH 43004. Available at www.amazon.com
- **NFPA 70 - National Electrical Code**, 2011. National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471. Available at www.nfpa.org.

JOURNEYMAN PLUMBER (ENGLISH OR SPANISH)

Perform work under the supervision and in the employ of a state certified plumber or a locally licensed master plumber.

| | |
|-----------------------------|-----------|
| Number of Questions | 80 |
| Time allowed (hours) | 3 |

| Subject Area | # Quest. |
|-------------------------------|-----------------|
| Drain, Waste & Vent Systems | 14 |
| Fixtures & Fittings | 6 |
| General Knowledge | 10 |
| Isometrics & Plan Reading | 10 |
| Plumbing Math | 5 |
| Storm & Roof Drainage | 8 |
| Water Heaters | 8 |
| Water Supply and Distribution | 12 |
| Safety | 7 |

References

- **Florida Building Code 2017 - Plumbing**, 2017. ISBN: 978-1-60983-689-4. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478. www.iccsafe.org
- **Plumbing Basics for Contractors, 3rd Edition**, 2014. ISBN: 978-1-269-78624-9. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at www.provbookstore.com

MASONRY (ENGLISH OR SPANISH)

Tests a candidate's knowledge of the selection, cutting, and laying of brick, stone, and masonry products. This includes structural glass brick or block, insulated concrete units, and the placement of reinforcing steel, including concrete forming and placing incorporated into the masonry work.

| | |
|-----------------------------|-----------|
| Number of Questions | 50 |
| Time allowed (hours) | 2 |

| Subject Area | # Quest. |
|---------------------------|-----------------|
| Masonry Installation | 12 |
| Mortar | 8 |
| Masonry Units | 8 |
| Plan Reading & Estimating | 8 |
| Reinforcement | 7 |
| Safety | 7 |

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](http://www.amazon.com)
- **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
- **Study Guide for Masonry Contractors, 2nd Edition**, 2014. ISBN: 978-1-269-78558-7. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at www.provbookstore.com.

MASTER SIGN ELECTRICIAN 2011

Tests a candidate's knowledge of the design, plan, installation, repair, alteration, and maintenance of electric conductors, raceways, and equipment associated with electric signs. The branch circuit supplying power to the sign shall originate from an existing disconnect or power outlet.

| | |
|-----------------------------|-----------|
| Number of Questions | 40 |
| Time allowed (hours) | 2 |

| Subject Area | # Quest. |
|-------------------------------------|-----------------|
| Electrical Signs & Outline Lighting | 16 |
| Grounding & Bonding | 4 |
| General Electrical Knowledge | 6 |
| Motors & Controls | 3 |
| Transformers | 3 |
| Wiring & Protection | 4 |
| Wiring Methods & Materials | 4 |

References

- **American Electricians' Handbook**, 15th Edition. ISBN: 978-0-07-149462-5. McGraw Hill Glencoe Order Services, P.O. Box 545, Blacklick, OH 43004. Available at www.amazon.com
- **NFPA 70 - National Electrical Code**, 2011. National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471. Available at www.nfpa.org.

METAL AWNING & STORM SHUTTER CONTRACTOR

Metal Awning and Storm Shutter Contractor is qualified and certified to fabricate, erect and install awnings or canopies of metal including other materials, incidental thereto, in or on buildings or other structures, and which may be, in whole or part, supported from a building wall erected and provided by others, or may be self-supporting, and including footings or slabs on grade in connection therewith. Such contractor shall have a qualifying agent with experience and skill gained by at least one (1) year's practical work in this field and who has passed a designated examination.

Number of Questions 50
Time allowed (hours) 2

| Subject Area | # Quest. |
|------------------------------|----------|
| Plan Reading & Estimating | 6 |
| Concrete and Reinforcement | 6 |
| Metal Storm Panel Shutters | 6 |
| Wood Storm Shutters | 5 |
| Installation & Anchorage | 16 |
| Building and Municipal Codes | 7 |
| Safety | 4 |

References

- **Basic Safety.** ISBN: 9781323676189. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at www.provbookstore.com.
- **Carpentry Level One,** 2006. ISBN: 978-0-13-229268-9. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at <http://nccer.pearsonconstructionbooks.com>.
- **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
- **Hurricane Shutter Designs.** APA - The Engineered Wood Association, 7011 S. 19th ST, Tacoma, WA 98466. Available at www.apawood.org Candidate printed versions allowed if exam is open book.

METAL AWNING & STORM SHUTTER CONTRACTOR (SPANISH)

Metal Awning and Storm Shutter Contractor is qualified and certified to fabricate, erect and install awnings or canopies of metal including other materials, incidental thereto, in or on buildings or other structures, and which may be, in whole or part, supported from a building wall erected and provided by others, or may be self-supporting, and including footings or slabs on grade in connection therewith. Such contractor shall have a qualifying agent with experience and skill gained by at least one (1) year's practical work in this field and who has passed a designated examination

Number of Questions 50
Time allowed (hours) 2

| Subject Area | # Quest. |
|------------------------------|----------|
| Plan Reading & Estimating | 6 |
| Concrete and Reinforcement | 6 |
| Metal Storm Panel Shutters | 6 |
| Wood Storm Shutters | 5 |
| Installation & Anchorage | 16 |
| Building and Municipal Codes | 7 |
| Safety | 4 |

References

- **Basic Safety.** ISBN: 9781323676189. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at www.provbookstore.com.
- **Carpentry Level One,** 2006. ISBN: 978-0-13-229268-9. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at <http://nccer.pearsonconstructionbooks.com>.
- **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
- **Hurricane Shutter Designs.** APA - The Engineered Wood Association, 7011 S. 19th ST, Tacoma, WA 98466. Available at www.apawood.org Candidate printed versions allowed if exam is open book.

PAINTING AND DECORATING

Use paint spraying equipment and hand tools to apply paint to interior and exterior surfaces; includes painting concrete, sealing river rock, sandblasting and general coating except roof applications.

Number of Questions 50
Time allowed (hours) 3

| Subject Area | # Quest. |
|---------------------------|----------|
| Safety | 6 |
| Substrates & Preparation | 12 |
| Materials | 10 |
| Application | 12 |
| Job Planning & Estimating | 5 |
| Equipment | 5 |

References

- **Painting Level One,** 1997. ISBN: 978-0-13-771239-7. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at <http://nccer.pearsonconstructionbooks.com>.
- **Painting Level Two,** 1997. ISBN: 978-0-13-771296-0. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at <http://nccer.pearsonconstructionbooks.com>.

PAVER BLOCK CONTRACTOR

laying of brick, block, paver brick or paver block for flat work only. The bricks are set in sand or other loose or packed material. Blocks may not be set in place by any aggregate that hardens such as concrete or mortar..

Number of Questions 50
Time allowed (hours) 2

| Subject Area | # Quest. |
|---|----------|
| Paver Installation | 16 |
| Base Materials, Bedding & Edge Restraints | 7 |
| Paving Materials | 7 |
| Plan Reading & Estimating | 8 |
| Safety | 6 |
| Soil Characteristics & Compaction | 6 |

References

- **Basic Safety.** ISBN: 9781323676189. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at www.provbookstore.com.
- **ICPI Concrete Paver Installer Course Manual, 7th Edition,** 2000. Interlocking Concrete Pavement Institute, 13921 Park Center Road, Suite 270, Herndon, VA 20171. Available at www.icpi.org.

PLASTERING & STUCCO (ENGLISH OR SPANISH)

Lathing and Plastering Scope: A lathing and plastering contractor coats surfaces with a mixture of sand, gypsum plaster, quick-lime or hydrated lime and water, or sand and cement and water, or a combination of such other materials that create a permanent coating, including coatings for the purpose of soundproofing and fireproofing. These coatings are applied with a plasterer's trowel or sprayed over any surface which offers a mechanical means for the support of such coating, and will adhere by suction. This contractor also installs lath (including metal studs) or any other material prepared or manufactured to provide a base or bond for such coating. A lathing and plastering contractor also applies and affixes wood and metal lath, or any other material prepared or manufactured to provide key or suction bases for the support of plaster coatings. This classification includes the channel work and metal studs for the support of metal or any other lathing material and for solid plaster partitions.

| | |
|-----------------------------|-----------------|
| Number of Questions | 50 |
| Time allowed (hours) | 3 |
| Subject Area | # Quest. |
| Plan Reading & Estimating | 5 |
| Framing | 10 |
| Lathing | 10 |
| Materials | 10 |
| Application & Finishing | 10 |
| Safety | 5 |

References

- **ASTM C1007-11a Standard Specification for Installation of Load Bearing (Transverse and Axial) Steel Studs and Related Accessories,** 2011. 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/>. Candidate printed versions allowed if exam is open book.
- **ASTM C1063-12a - Standard Specification for Installation of Lathing & Furring to Receive Interior & Exterior Portland Cement Based Plaster,** 2012. 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/>. Candidate printed versions allowed if exam is open book.
- **ASTM C926-12a - Standard Specification for Application of Portland Cement Based Plaster.** 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/>. Candidate printed versions allowed if exam is open book.
- **Basic Safety.** ISBN: 9781323676189. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at www.provbookstore.com.

- **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
- **Gypsum Construction Handbook,** 2009. ISBN: 978-0876292587. United States Gypsum Corporation, 350 Burnhamthorpe Road West, 5th Floor, Mississauga, ON. Available at www.amazon.com.
- **Introduction to Construction Math,** 2015. NCCER MATS Testing, 13614 Progress Blvd, Alachua, FL 32615.

SIGN CONTRACTOR (NON-ELECTRIC)

Tests a candidate's knowledge of installation, repair, and modification of non-electrical signs.

| | |
|-----------------------------|-----------------|
| Number of Questions | 49 |
| Time allowed (hours) | 2 |
| Subject Area | # Quest. |
| Plan Reading | 5 |
| Concrete and Reinforcement | 9 |
| Wood | 6 |
| Structural Steel | 7 |
| Welding | 7 |
| Non-Electric Sign | 8 |
| Safety | 7 |

References

- **Carpentry Level One, Carpentry Fundamentals 2013,** 2013. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at <http://nccer.pearsonconstructionbooks.com>.
- **Carpentry Level Three 2014,** 2014. ISBN: 0133823059. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at <http://nccer.pearsonconstructionbooks.com>.
- **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
- **Ironworking Level One,** 2011. ISBN: 978-0-13-213714-0. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at <http://nccer.pearsonconstructionbooks.com>.

TILE & MARBLE

Mix and prepare the base for and set tile and marble.

| | |
|-----------------------------|-----------------|
| Number of Questions | 50 |
| Time allowed (hours) | 2 |
| Subject Area | # Quest. |
| Plan Reading & Estimating | 6 |
| Substrates | 11 |
| Materials | 6 |
| Layout & Planning | 6 |
| Ceramic Tile Installation | 11 |
| Marble & Stone Installation | 5 |
| Safety | 5 |

References

- **American National Standards Specifications for the Installation of Ceramic Tile**, Version 2011.1. American National Standards Institute, 25 West 43rd Street, 4th floor, New York, NY 10036. Available at <http://www.tcnatile.com/>.
- **Basic Safety**. ISBN: 9781323676189. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at www.provbookstore.com.
- **Setting Tile**, 1995. The Taunton Press, 63 South Main St., P.O. Box 5506, Newton, CT 06470. Available at www.taunton.com.
- **TCNA Handbook for Ceramic, Glass, and Stone Tile Installation**. Tile Council of North America, 100 Clemson Research Blvd., Anderson, SC 29625. Available at www.tcnatile.com.
- **Tile Your World**, 2003. ISBN: 0-9742754-3-3. Mistflower Press, 6717 Mistflower Lane, Katy, TX 77449. Available at mistflowerpress.com/index.html.

UNLIMITED INSULATION

Tests a candidate's knowledge of insulation installation, repair, maintenance and extension to control the gain or loss of heat from all sources in buildings, rooms, pipes, vessels, ducts, process equipment, refrigerated rooms, and boxes. This includes installation, repair, maintenance, and extension of acoustical insulation.

| | |
|-----------------------------|-----------|
| Number of Questions | 50 |
| Time allowed (hours) | 3 |

| Subject Area | # Quest. |
|------------------------------------|----------|
| Plan Reading & Estimating | 5 |
| Theory | 5 |
| Insulation Materials & Accessories | 12 |
| Insulation Installation | 13 |
| Systems Insulation | 10 |
| Safety | 5 |

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
- **Florida Building Code 2017 - Energy Conservation**, 2017. ISBN: 978-1-60983-695-5. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478. www.iccsafe.org
- **Insulating Level Three**, 1999. ISBN: 978-0-13-909458-3. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at <http://nccer.pearsonconstructionbooks.com>.
- **Insulating Level Two**, 1999. ISBN: 978-0-13-909417-0. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at <http://nccer.pearsonconstructionbooks.com>.
- **Study Guide for Insulation**. ISBN: 978-0-136-06315-5. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at <http://nccer.pearsonconstructionbooks.com>