

## ORANGE COUNTY - EXAM DESCRIPTIONS

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### **AC Commercial (2023 edition)**

(UPDATED TO 2023 CODE) Tests a candidate's knowledge of the installation, maintenance, repair, fabrication, alteration, and extension of commercial air conditioning, warm air heating, ventilation, duct systems, and related appurtenances unlimited in horsepower or tonnage.

|                             |            |
|-----------------------------|------------|
| <b>Number of Questions</b>  | <b>100</b> |
| <b>Time allowed (hours)</b> | <b>4</b>   |

| <b>Subject Area</b> | <b># Quest.</b> |
|---------------------|-----------------|
| Equipment           | 20              |
| General Knowledge   | 27              |
| Maintenance         | 29              |
| Piping              | 11              |
| Plan Reading        | 3               |
| Systems & Sizing    | 10              |

### **References**

- **Advanced Mechanical Study Guide , 2nd edition**, 2nd. ISBN: 9781323725184. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at [www.provbookstore.com](http://www.provbookstore.com).

- **Florida Building Code 2023 - Fuel Gas**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478.
- **Florida Building Code 2023 - Mechanical**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478.
- **Florida Building Code 2023 - Residential**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478.
- **HVAC Basics for Contractors, 3rd Edition**, 3rd Edition. ISBN: 13:9781323725146. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at [www.provbookstore.com](http://www.provbookstore.com).
- **Intermediate Mechanical Study Guide**, 2015. ISBN: 9781323725221. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at [www.provbookstore.com](http://www.provbookstore.com).
- **Modern Refrigeration and Air Conditioning**, 21st Edition. ISBN: 978-1-63563-877-6. Goodheart-Wilcox Company, Inc., 18604 West Creek Dr., Tinley Park, IL 60477-6243. Available at [www.g-w.com](http://www.g-w.com)

## **Aluminum Construction & Limited Concrete (2023 edition)**

(UPDATED TO 2023 CODE) Tests a candidate's knowledge of the fabrication, installation, repair, alteration and extension of aluminum structures, including screen rooms with solid or screen roofs, metal siding, soffits, gutters, and awnings, with limited concrete work incidental to these structures for footings and slabs.

|                                             |                 |
|---------------------------------------------|-----------------|
| <b>Number of Questions</b>                  | <b>50</b>       |
| <b>Time allowed (hours)</b>                 | <b>2</b>        |
| <b>Subject Area</b>                         | <b># Quest.</b> |
| Miscellaneous Aluminum Structures & Gutters | 6               |
| Concrete                                    | 7               |
| Plan Reading & Estimating                   | 7               |
| Safety                                      | 6               |
| Screen Rooms, Carports & Patio Covers       | 8               |
| Screen Enclosures                           | 8               |
| Siding, Soffit & Fascia                     | 8               |

### **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)
- **Basic Safety**. ISBN: 9781323676189. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at [www.provbookstore.com](http://www.provbookstore.com).
- **Florida Building Code 2023 - Building**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478. <https://shop.iccsafe.org/>
- **Study Guide for Residential Carpentry and Repair, 2nd edition**, 2014. ISBN: 978-1-269-78561-7. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at [www.provbookstore.com](http://www.provbookstore.com)

## **Aluminum Siding (2023 edition)**

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.

|                             |           |
|-----------------------------|-----------|
| <b>Number of Questions</b>  | <b>25</b> |
| <b>Time allowed (hours)</b> | <b>2</b>  |

|                           |                 |
|---------------------------|-----------------|
| <b>Subject Area</b>       | <b># Quest.</b> |
| 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](http://www.provbookstore.com).
- **Florida Building Code 2023 - Building**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478. <https://shop.iccsafe.org/>
- **Florida Building Code 2023 - Residential**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478.
- **Study Guide for Residential Carpentry and Repair, 2nd edition**, 2014. ISBN: 978-1-269-78561-7. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at [www.provbookstore.com](http://www.provbookstore.com)

## **Aluminum Structures & Specialties (2023 edition)**

(UPDATED TO 2023 CODE) A contractor whose services consist of the installation, fabrication, maintenance (except for cleaning), repair or design with aluminum, vinyl and fiberglass screen material. The aluminum contractor may work on foundation, slabs on grade and block knee walls, wood decks (self-standing) and utility sheds (wood studs only) less than 501 square feet, necessary to and incidental to the aluminum construction work. The aluminum contractor shall not perform any work that alters the structural integrity of the building and shall not use wood products for rafters, trusses and wood beams.

|                             |           |
|-----------------------------|-----------|
| <b>Number of Questions</b>  | <b>50</b> |
| <b>Time allowed (hours)</b> | <b>2</b>  |

|                                             |                 |
|---------------------------------------------|-----------------|
| <b>Subject Area</b>                         | <b># Quest.</b> |
| Plan Reading & Estimating                   | 8               |
| Concrete & Masonry                          | 7               |
| Carpentry, Windows & Doors                  | 6               |
| Siding, Soffit & Fascia                     | 6               |
| Screen Enclosures                           | 6               |
| Screen Rooms, Carports & Patio Covers       | 6               |
| Miscellaneous Aluminum Structures & Gutters | 6               |
| 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](http://www.provbookstore.com).
- **Florida Building Code 2023 - Building**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478. <https://shop.iccsafe.org/>
- **Masonry and Sitework for the Residential Contractor, 2nd edition**, 2nd. ISBN: 978-1-269-78556-3. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at [www.provbookstore.com](http://www.provbookstore.com)
- **Study Guide for Residential Carpentry and Repair, 2nd edition**, 2014. ISBN: 978-1-269-78561-7. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at [www.provbookstore.com](http://www.provbookstore.com)

## Building Contractor (2023 edition)

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.

|                             |                 |
|-----------------------------|-----------------|
| <b>Number of Questions</b>  | <b>70</b>       |
| <b>Time allowed (hours)</b> | <b>3</b>        |
| <b>Subject Area</b>         | <b># Quest.</b> |
| 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://constructionbooks.com/store/product.aspx?isbn=0136868282> OR <https://provexam.com/bookstore/>.
- **Florida Building Code 2023 - Building**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478. <https://shop.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](http://www.provbookstore.com)

## Building Contractor 2023 (Spanish)

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.

|                             |                 |
|-----------------------------|-----------------|
| <b>Number of Questions</b>  | <b>70</b>       |
| <b>Time allowed (hours)</b> | <b>3</b>        |
| <b>Subject Area</b>         | <b># Quest.</b> |
| Plan Reading & Estimating   | 10              |
| Sitework                    | 5               |
| Concrete                    | 11              |
| Masonry                     | 8               |
| Structural Steel            | 4               |
| Carpentry & Metal Framing   | 10              |
| Roofing                     | 4               |
| Associated Trades           | 3               |
| Interior Finishes           | 4               |
| Exterior Finishes           | 4               |
| 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
- **Concrete Construction Level 2**, 2021. ISBN: 978-0-13-689832-0. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. <http://constructionbooks.com/store/product.aspx?isbn=0136868282> OR <https://provexam.com/bookstore/>.
- **Florida Building Code 2023 - Building**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478. <https://shop.iccsafe.org/>
- **Masonry Level Three**, 2014. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336.
- **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](http://www.provbookstore.com)

## **Burglar & Fire Alarm Electrical 2020**

Tests a candidate's knowledge of the design, plan, installation, repair, alteration, and maintenance of intrusion detection, fire detection, and signaling systems.

|                                              |                 |
|----------------------------------------------|-----------------|
| <b>Number of Questions</b>                   | <b>50</b>       |
| <b>Time allowed (hours)</b>                  | <b>2</b>        |
| <b>Subject Area</b>                          | <b># Quest.</b> |
| General Electrical Knowledge                 | 5               |
| Fire & Intrusion Detection & Alarms          | 24              |
| Power Supplies                               | 5               |
| Notification Appliances & Signaling Circuits | 5               |
| Grounding & Bonding                          | 4               |
| Raceways & Boxes                             | 3               |
| Conductors & Cables                          | 3               |
| Special Occupancies                          | 1               |

### **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](http://www.amazon.com).
- **NFPA 70 - National Electrical Code 2020**, 2020. ISBN: 9781455922970. National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471. Available at [www.nfpa.org](http://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](http://www.amazon.com).

## **Business and Law, 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.

\*This exam uses the second edition of FLORIDA - NASCLA Contractors Guide to Business, Law and Project Management.

|                             |                 |
|-----------------------------|-----------------|
| <b>Number of Questions</b>  | <b>50</b>       |
| <b>Time allowed (hours)</b> | <b>2</b>        |
| <b>Subject Area</b>         | <b># Quest.</b> |
| Business Organization       | 4               |
| Licensing                   | 3               |
| Lien laws                   | 3               |
| Tax Laws                    | 6               |
| Safety OSHA                 | 4               |
| Labor Laws                  | 6               |
| Contract Management         | 5               |
| Project Management          | 5               |
| Estimating & Bidding        | 5               |
| Financial Management        | 5               |
| Risk Management             | 4               |

### **References**

- **FLORIDA - NASCLA Contractors Guide to Business, Law and Project**

**Management**, 2nd. NASCLA, 23309 N. 17th Drive, Building 1, Unit 110, Phoenix, AZ 85027.

## **Business and Law, 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.

\*This exam uses the second edition of FLORIDA - NASCLA Contractors Guide to Business, Law and Project Management.

|                             |                 |
|-----------------------------|-----------------|
| <b>Number of Questions</b>  | <b>50</b>       |
| <b>Time allowed (hours)</b> | <b>2</b>        |
| <b>Subject Area</b>         | <b># Quest.</b> |
| Business Organization       | 4               |
| Licensing                   | 3               |
| Lien laws                   | 3               |
| Tax Laws                    | 6               |
| Safety OSHA                 | 4               |
| Labor Laws                  | 6               |
| Contract Management         | 5               |
| Project Management          | 5               |
| Estimating & Bidding        | 5               |
| Financial Management        | 5               |
| Risk Management             | 4               |

### **References**

- **FLORIDA - NASCLA Contractors Guide to Business, Law and Project**

**Management**, 2nd. NASCLA, 23309 N. 17th Drive, Building 1, Unit 110, Phoenix, AZ 85027.

## **Carpentry (2023 edition)**

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

|                               |                 |
|-------------------------------|-----------------|
| <b>Number of Questions</b>    | <b>50</b>       |
| <b>Time allowed (hours)</b>   | <b>3</b>        |
| <b>Subject Area</b>           | <b># Quest.</b> |
| 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](http://www.provbookstore.com).

- **Florida Building Code 2023 - Building**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478. <https://shop.iccsafe.org/>
- **Study Guide for Residential Carpentry and Repair, 2nd edition**, 2014. ISBN: 978-1-269-78561-7. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at [www.provbookstore.com](http://www.provbookstore.com)

## **Carpentry 2023 (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

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

### **References**

- **Basic Safety**. ISBN: 9781323676189. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at [www.provbookstore.com](http://www.provbookstore.com).
- **Florida Building Code 2023 - Building**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478. <https://shop.iccsafe.org/>
- **Study Guide for Residential Carpentry and Repair, 2nd edition**, 2014. ISBN: 978-1-269-78561-7. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at [www.provbookstore.com](http://www.provbookstore.com)

## **Commercial Swimming Pool (2023 edition)**

Shall include the construction, repair, water treatment, and servicing of any swimming pool or hot tub or spa, whether public or private or otherwise, regardless of use. The scope of such work includes layout, excavation, operation of construction pumps for dewatering purposes, steelwork, installation of light niches, construction of floors, guniting, fiber glassing, installation of tile and coping, installation of all perimeter and filter piping, installation of all filter equipment and chemical feeders of any type, plastering of the interior, construction of decks (slabs incidental to the pool), construction of equipment rooms or housing for pool equipment, and installation of package pool heaters. (However, the scope of work of such Contractor shall not include direct connections to a sanitary sewer or to potable water lines.) Such Contractors may contract for screen enclosures if a sublicensed specialist performs such work, and contracted with pool work.

|                             |           |
|-----------------------------|-----------|
| <b>Number of Questions</b>  | <b>50</b> |
| <b>Time allowed (hours)</b> | <b>2</b>  |

|                                              |                 |
|----------------------------------------------|-----------------|
| <b>Subject Area</b>                          | <b># Quest.</b> |
| Plan Reading & Estimating                    | 4               |
| Site Preparation, Excavation and Backfilling | 5               |
| Pool Shell Construction                      | 14              |
| Interior Surface Preparation and Finishing   | 10              |
| Tile, Coping and Trimwork                    | 4               |
| Accessory Work                               | 3               |
| Care and Operation                           | 6               |
| Safety                                       | 4               |

### **References**

- **Basic Safety**. ISBN: 9781323676189. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at [www.provbookstore.com](http://www.provbookstore.com).
- **Florida Building Code 2023 - Building**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478. <https://shop.iccsafe.org/>
- **Swimming Pools: Design and Construction**, Fourth Edition. ISBN: 978-0419235903. Taylor and Francis, 270 Madison Avenue, New York, NY 10016. Available at [www.amazon.com](http://www.amazon.com).

## **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))

|                             |           |
|-----------------------------|-----------|
| <b>Number of Questions</b>  | <b>50</b> |
| <b>Time allowed (hours)</b> | <b>2</b>  |

|                                      |                 |
|--------------------------------------|-----------------|
| <b>Subject Area</b>                  | <b># Quest.</b> |
| 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 Forming and Placing

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.

|                                      |                 |
|--------------------------------------|-----------------|
| <b>Number of Questions</b>           | <b>50</b>       |
| <b>Time allowed (hours)</b>          | <b>2</b>        |
| <b>Subject Area</b>                  | <b># Quest.</b> |
| 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 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 Forming and Placing (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..

|                                      |                 |
|--------------------------------------|-----------------|
| <b>Number of Questions</b>           | <b>50</b>       |
| <b>Time allowed (hours)</b>          | <b>2</b>        |
| <b>Subject Area</b>                  | <b># Quest.</b> |
| 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 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 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.

|                             |           |
|-----------------------------|-----------|
| <b>Number of Questions</b>  | <b>40</b> |
| <b>Time allowed (hours)</b> | <b>2</b>  |

|                                      |                 |
|--------------------------------------|-----------------|
| <b>Subject Area</b>                  | <b># Quest.</b> |
| Plan Reading & Estimating            | 4               |
| Properties of Concrete               | 6               |
| Preparation for Placement            | 5               |
| Reinforcement                        | 3               |
| Placement & Finishing                | 7               |
| Specialized Installations & Finishes | 4               |
| Quality Control & Curing             | 6               |
| 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 Placing and Finishing (Spanish)

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.

|                             |           |
|-----------------------------|-----------|
| <b>Number of Questions</b>  | <b>40</b> |
| <b>Time allowed (hours)</b> | <b>2</b>  |

|                           |                 |
|---------------------------|-----------------|
| <b>Subject Area</b>       | <b># Quest.</b> |
| 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 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/>.

## Demolition (2023 edition)

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.

|                             |           |
|-----------------------------|-----------|
| <b>Number of Questions</b>  | <b>50</b> |
| <b>Time allowed (hours)</b> | <b>2</b>  |

| <b>Subject Area</b>           | <b># Quest.</b> |
|-------------------------------|-----------------|
| 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, 2022 edition**, 2022. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116.
- **Code of Federal Regulations, Title 29 Labor Pt 1926 Revised as of July 1, 2016**, 2016. ISBN: 978-1354237915. National Archives and Records Administration, College Park, MD. <https://bookstore.gpo.gov>
- **Florida Building Code 2023 - Building**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478. <https://shop.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](http://www.isee.org).
- **Masonry Level One**, 2013. ISBN: 0133402487. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at <http://nccer.pearsonconstructionbooks.com>.
- **NFPA 241 Safeguarding Construction, Alteration and Demolition Operations**. National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471. Available at [www.nfpa.org](http://www.nfpa.org).

## Demolition Spanish (2023 edition)

(UPDATED TO 2023 CODE) 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

|                             |           |
|-----------------------------|-----------|
| <b>Number of Questions</b>  | <b>50</b> |
| <b>Time allowed (hours)</b> | <b>2</b>  |

| <b>Subject Area</b>           | <b># Quest.</b> |
|-------------------------------|-----------------|
| Plan Reading & Interpretation | 7               |
| Structural Concrete           | 4               |
| Structural Masonry            | 5               |
| Structural Framing            | 4               |
| Structural Steel              | 6               |
| Blasting                      | 6               |
| Rigging and Cranes            | 8               |
| Safety                        | 10              |

## References

- **Carpentry Level One, 2013 edition**, 2013. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. 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 2020 - Building**, 2020. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478. [www.iccsafe.org](http://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](http://www.isee.org).
- **Masonry Level One**, 2013. ISBN: 0133402487. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at <http://nccer.pearsonconstructionbooks.com>.
- **NFPA 241 Safeguarding Construction, Alteration and Demolition Operations**. National Fire Protection Association, 1 Batterymarch Park,

## **Electrical Sign Contractor 2020**

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).

|                             |           |
|-----------------------------|-----------|
| <b>Number of Questions</b>  | <b>40</b> |
| <b>Time allowed (hours)</b> | <b>2</b>  |

|                                     |                 |
|-------------------------------------|-----------------|
| <b>Subject Area</b>                 | <b># Quest.</b> |
| 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 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>
- **NFPA 70 - National Electrical Code 2020**, 2020. ISBN: 9781455922970. National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471. Available at [www.nfpa.org](http://www.nfpa.org).

## **Garage Door Installer Contractor (2023 edition)**

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.

|                             |           |
|-----------------------------|-----------|
| <b>Number of Questions</b>  | <b>50</b> |
| <b>Time allowed (hours)</b> | <b>2</b>  |

|                                           |                 |
|-------------------------------------------|-----------------|
| <b>Subject Area</b>                       | <b># Quest.</b> |
| 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](http://www.provbookstore.com).
- **Florida Building Code 2023 - Building**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478. <https://shop.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 <https://dasma.com/dasma-pages/DASMA-technical-data-sheets.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 <https://dasma.com/dasma-pages/DASMA-technical-data-sheets.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 <https://dasma.com/dasma-pages/DASMA-technical-data-sheets.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 <https://dasma.com/dasma-pages/DASMA-technical-data-sheets.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 <https://dasma.com/dasma-pages/DASMA-technical-data-sheets.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 <https://dasma.com/dasma-pages/DASMA-technical-data-sheets.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 <https://dasma.com/dasma-pages/DASMA-technical-data-sheets.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 <https://dasma.com/dasma-pages/DASMA-technical-data-sheets.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 <https://dasma.com/dasma-pages/DASMA-technical-data-sheets.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 <https://dasma.com/dasma-pages/DASMA-technical-data-sheets.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 <https://dasma.com/dasma-pages/DASMA-technical-data-sheets.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 <https://dasma.com/dasma-pages/DASMA-tehnical-data-sheets.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 <https://dasma.com/dasma-pages/DASMA-tehnical-data-sheets.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 <https://dasma.com/dasma-pages/DASMA-tehnical-data-sheets.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 <https://dasma.com/dasma-pages/DASMA-tehnical-data-sheets.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 <https://dasma.com/dasma-pages/DASMA-tehnical-data-sheets.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 <https://dasma.com/dasma-pages/DASMA-tehnical-data-sheets.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 <https://dasma.com/dasma-pages/DASMA-tehnical-data-sheets.asp>. Candidate printed versions allowed if exam is open book

## **General Contractor (2023 edition)**

Tests a candidate's knowledge of the construction, repair, alteration, remodeling, addition to, subtraction from, improvement, and demolition of any building or structure including related improvements to real estate excluding electrical, mechanical, plumbing, and liquefied petroleum gas work related thereto.

|                             |                 |
|-----------------------------|-----------------|
| <b>Number of Questions</b>  | <b>80</b>       |
| <b>Time allowed (hours)</b> | <b>3</b>        |
| <b>Subject Area</b>         | <b># Quest.</b> |
| Plan Reading & Estimating   | 11              |
| Sitework                    | 5               |
| Concrete                    | 12              |
| Masonry                     | 8               |
| Structural Steel            | 10              |
| Carpentry & Metal Framing   | 12              |
| Roofing                     | 4               |
| Associated Trades           | 2               |
| Interior Finishes           | 5               |
| Exterior Finishes           | 5               |

## **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
- **Carpentry Level One, 2022 edition,** 2022. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116.
- **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 2023 - Building,** 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478. <https://shop.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](http://www.provbookstore.com)

## **General Contractor Spanish (2023 edition)**

Tests a candidate's knowledge of the construction, repair, alteration, remodeling, addition to, subtraction from, improvement, and demolition of any building or structure including related improvements to real estate excluding electrical, mechanical, plumbing, and liquefied petroleum gas work related thereto.

|                             |                 |
|-----------------------------|-----------------|
| <b>Number of Questions</b>  | <b>80</b>       |
| <b>Time allowed (hours)</b> | <b>3</b>        |
| <b>Subject Area</b>         | <b># Quest.</b> |
| Plan Reading & Estimating   | 10              |
| Sitework                    | 6               |
| Concrete                    | 12              |
| Masonry                     | 8               |
| Structural Steel            | 7               |
| Carpentry & Metal Framing   | 12              |
| Roofing                     | 5               |
| Associated Trades           | 3               |
| Interior Finishes           | 5               |
| Exterior Finishes           | 6               |
| Safety                      | 6               |

## **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
- **Carpentry Level One, 2022 edition,** 2022. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116.
- **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>.

- **Florida Building Code 2023 - Building**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478. <https://shop.iccsafe.org/>
- **Masonry Level Three**, 2005. ISBN: 978-0-13-109169-6. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at <http://nccer.pearsonconstructionbooks.com>.
- **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](http://www.provbookstore.com)

## **Irrigation Sprinkler (2023 edition)**

Install, repair, maintain, alter or extend all piping and sprinkler heads for the irrigation of lawns including incidental connections to a water pump (but not direct connection to potable water lines).

|                                           |                 |
|-------------------------------------------|-----------------|
| <b>Number of Questions</b>                | <b>50</b>       |
| <b>Time allowed (hours)</b>               | <b>2</b>        |
| <b>Subject Area</b>                       | <b># Quest.</b> |
| Plan Reading & Estimating                 | 4               |
| Planning & Layout                         | 8               |
| Materials                                 | 8               |
| Controls                                  | 6               |
| Irrigation Installation                   | 10              |
| Cross Contamination & Backflow Prevention | 5               |
| Reclaimed Water                           | 3               |
| Safety                                    | 6               |

### **References**

- **Basic Safety**. ISBN: 9781323676189. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at [www.provbookstore.com](http://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 2023 - Plumbing**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478.
- **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](http://www.amazon.com).

## **Irrigation Sprinkler Spanish (2023 edition)**

Install, repair, maintain, alter or extend all piping and sprinkler heads for the irrigation of lawns including incidental connections to a water pump (but not direct connection to potable water lines).

|                             |                 |
|-----------------------------|-----------------|
| <b>Number of Questions</b>  | <b>50</b>       |
| <b>Time allowed (hours)</b> | <b>2</b>        |
| <b>Subject Area</b>         | <b># Quest.</b> |
| 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](http://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 2023 - Plumbing**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478.
- **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](http://www.amazon.com).

## **Journeyman AC (Limited) (2023 edition)**

Tests a candidate's knowledge of the installation, maintenance, repair, fabrication, alteration, and extension of air conditioning, refrigeration, heating, ventilation, duct systems, piping vessels, insulation, and related appurtenances within a complete system, limited to 25 tons cooling and 500,000 BTU heating.

|                             |            |
|-----------------------------|------------|
| <b>Number of Questions</b>  | <b>100</b> |
| <b>Time allowed (hours)</b> | <b>4</b>   |

|                     |                 |
|---------------------|-----------------|
| <b>Subject Area</b> | <b># Quest.</b> |
| General Knowledge   | 22              |
| Piping              | 10              |
| Systems & Sizing    | 25              |
| Equipment           | 15              |
| Maintenance         | 22              |
| Plan Reading        | 6               |

### **References**

- **Advanced Mechanical Study Guide , 2nd edition**, 2nd. ISBN: 9781323725184. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at [www.provbookstore.com](http://www.provbookstore.com).
- **Florida Building Code 2023 - Building**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478. <https://shop.iccsafe.org/>
- **Florida Building Code 2023 - Mechanical**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478.
- **HVAC Basics for Contractors, 3rd Edition**, 3rd Edition. ISBN: 13:9781323725146. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at [www.provbookstore.com](http://www.provbookstore.com).
- **Intermediate Mechanical Study Guide**, 2015. ISBN: 9781323725221. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at [www.provbookstore.com](http://www.provbookstore.com).

## Journeyman AC (Limited) Spanish (2023 edition)

Tests a candidate's knowledge of the installation, maintenance, repair, fabrication, alteration, and extension of air conditioning, refrigeration, heating, ventilation, duct systems, piping vessels, insulation, and related appurtenances within a complete system, limited to 25 tons cooling and 500,000 BTU heating.

|                             |            |
|-----------------------------|------------|
| <b>Number of Questions</b>  | <b>100</b> |
| <b>Time allowed (hours)</b> | <b>4</b>   |

|                     |                 |
|---------------------|-----------------|
| <b>Subject Area</b> | <b># Quest.</b> |
| General Knowledge   | 22              |
| Piping              | 10              |
| Systems & Sizing    | 25              |
| Equipment           | 15              |
| Maintenance         | 22              |
| Plan Reading        | 6               |

### **References**

- **Advanced Mechanical Study Guide , 2nd edition**, 2nd. ISBN: 9781323725184. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at [www.provbookstore.com](http://www.provbookstore.com).
- **Florida Building Code 2023 - Building**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478. <https://shop.iccsafe.org/>
- **Florida Building Code 2023 - Mechanical**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478.
- **HVAC Basics for Contractors,3rd Edition**, 3rd Edition. ISBN: 13:9781323725146. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at [www.provbookstore.com](http://www.provbookstore.com).
- **Intermediate Mechanical Study Guide**, 2015. ISBN: 9781323725221. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at [www.provbookstore.com](http://www.provbookstore.com).

## Journeyman Air Conditioning (2023 edition)

Qualified to install, maintain, repair, alter, fabricate or extend air conditioning, refrigeration systems, piping vessels, warm air heating, low pressure boilers, ventilation systems, duct systems, insulation, and related appurtenances within a complete system unlimited in horsepower or tonnage.

|                             |            |
|-----------------------------|------------|
| <b>Number of Questions</b>  | <b>100</b> |
| <b>Time allowed (hours)</b> | <b>3</b>   |

|                     |                 |
|---------------------|-----------------|
| <b>Subject Area</b> | <b># Quest.</b> |
| General Knowledge   | 20              |
| Piping              | 10              |
| Systems & Sizing    | 24              |
| Equipment           | 10              |
| Maintenance         | 24              |
| Plan Reading        | 12              |

### **References**

- **Advanced Mechanical Study Guide , 2nd edition**, 2nd. ISBN: 9781323725184. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at [www.provbookstore.com](http://www.provbookstore.com).
- **Florida Building Code 2023 - Building**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478. <https://shop.iccsafe.org/>
- **Florida Building Code 2023 - Mechanical**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478.
- **HVAC Basics for Contractors,3rd Edition**, 3rd Edition. ISBN: 13:9781323725146. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at [www.provbookstore.com](http://www.provbookstore.com).
- **Intermediate Mechanical Study Guide**, 2015. ISBN: 9781323725221. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at [www.provbookstore.com](http://www.provbookstore.com).

## Journeyman Air Conditioning Spanish (2023 edition)

Qualified to install, maintain, repair, alter, fabricate or extend air conditioning, refrigeration systems, piping vessels, warm air heating, low pressure boilers, ventilation systems, duct systems, insulation, and related appurtenances within a complete system unlimited in horsepower or tonnage.

|                             |            |
|-----------------------------|------------|
| <b>Number of Questions</b>  | <b>100</b> |
| <b>Time allowed (hours)</b> | <b>3</b>   |

|                     |                 |
|---------------------|-----------------|
| <b>Subject Area</b> | <b># Quest.</b> |
| General Knowledge   | 22              |
| Piping              | 10              |
| Systems & Sizing    | 24              |
| Equipment           | 11              |
| Maintenance         | 28              |
| Plan Reading        | 5               |

### **References**

- **Advanced Mechanical Study Guide , 2nd edition**, 2nd. ISBN: 9781323725184. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at [www.provbookstore.com](http://www.provbookstore.com).
- **Florida Building Code 2023 - Building**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478. <https://shop.iccsafe.org/>
- **Florida Building Code 2023 - Mechanical**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478.
- **HVAC Basics for Contractors,3rd Edition**, 3rd Edition. ISBN: 13:9781323725146. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at [www.provbookstore.com](http://www.provbookstore.com).
- **Intermediate Mechanical Study Guide**, 2015. ISBN: 9781323725221. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at [www.provbookstore.com](http://www.provbookstore.com).

## Journeyman Burglar Alarm 2020

Journeyman shall mean any person who possesses the required skill, knowledge, and experience as evidenced by three (3) years' proven experience in the trade or craft, or education equivalent thereto, or a combination thereof, but not more than one-half (1/2) of such

experience may be education equivalent, and who has passed an examination in his or her particular trade or craft and possesses a valid certificate of competency as a journeyman in such trade or craft. There shall be at least one (1) journeyman for every three (3) trainees on each construction or installation job site for which a permit is required, and which involves a trade in which journeyman are required and certified. It shall be the responsibility of the employing contractor, and the qualifying agent, to provide journeymen on each job site in accordance with this section, and failure to do so shall be a violation of this chapter, subject to the penalties provided herein, and provided under Section 1-5 of this Code. A journeyman may only work in the employ of a contractor holding a certificate of competency in the field in which the journeyman is certified. Journeymen shall be required in the electrical, plumbing, and mechanical trades. Journeymen are required to earn continuing education credit during each term the personal certificate of competency is valid as established in this chapter and as required by the board through written rules or regulations commencing October 1, 1995.

|                                              |                 |
|----------------------------------------------|-----------------|
| <b>Number of Questions</b>                   | <b>50</b>       |
| <b>Time allowed (hours)</b>                  | <b>2</b>        |
| <b>Subject Area</b>                          | <b># Quest.</b> |
| General Electrical Knowledge                 | 6               |
| Intrusion Detection                          | 6               |
| Acoustical Installation                      | 18              |
| Notification Appliances & Signaling Circuits | 13              |
| Power Supplies                               | 5               |
| Supervisory Stations                         | 2               |

#### 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](http://www.amazon.com).
- **NFPA 70 - National Electrical Code 2020**, 2020. ISBN: 9781455922970. National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471. Available at [www.nfpa.org](http://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](http://www.amazon.com).

## Journeyman Burglar Alarm Spanish (2020 edition)

Journeyman shall mean any person who possesses the required skill, knowledge, and experience as evidenced by three (3) years' proven experience in the trade or craft, or education equivalent thereto, or a combination thereof, but not more than one-half (1/2) of such experience may be education equivalent, and who has passed an examination in his or her particular trade or craft and possesses a valid certificate of competency as a journeyman in such trade or craft. There shall be at least one (1) journeyman for every three (3) trainees on each construction or installation job site for which a permit is required, and which involves a trade in which journeyman are required and certified. It shall be the responsibility of the employing contractor, and

the qualifying agent, to provide journeymen on each job site in accordance with this section, and failure to do so shall be a violation of this chapter, subject to the penalties provided herein, and provided under Section 1-5 of this Code. A journeyman may only work in the employ of a contractor holding a certificate of competency in the field in which the journeyman is certified. Journeymen shall be required in the electrical, plumbing, and mechanical trades. Journeymen are required to earn continuing education credit during each term the personal certificate of competency is valid as established in this chapter and as required by the board through written rules or regulations commencing October 1, 1995.

|                                              |                 |
|----------------------------------------------|-----------------|
| <b>Number of Questions</b>                   | <b>50</b>       |
| <b>Time allowed (hours)</b>                  | <b>2</b>        |
| <b>Subject Area</b>                          | <b># Quest.</b> |
| General Electrical Knowledge                 | 6               |
| Intrusion Detection                          | 6               |
| Acoustical Installation                      | 18              |
| Notification Appliances & Signaling Circuits | 13              |
| Power Supplies                               | 5               |
| Supervisory Stations                         | 2               |

#### 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](http://www.amazon.com).
- **NFPA 70 - National Electrical Code 2020**, 2020. ISBN: 9781455922970. National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471. Available at [www.nfpa.org](http://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](http://www.amazon.com).

## Journeyman Electrician 2020

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

|                                        |                 |
|----------------------------------------|-----------------|
| <b>Number of Questions</b>             | <b>70</b>       |
| <b>Time allowed (hours)</b>            | <b>3</b>        |
| <b>Subject Area</b>                    | <b># Quest.</b> |
| Communication Systems                  | 4               |
| Equipment for General Use              | 6               |
| General Electrical Theory & Principles | 10              |
| Motors & Controls                      | 3               |
| Special Conditions                     | 2               |
| Special Equipment                      | 3               |
| Special Occupancies                    | 4               |
| Wiring & Protection                    | 14              |
| Wiring Methods & Materials             | 24              |

#### 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>
- **NFPA 70 - National Electrical Code 2020**, 2020. ISBN: 9781455922970. National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471. Available at [www.nfpa.org](http://www.nfpa.org).

## **Journeyman Electrician 2020 (Spanish)**

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

|                                        |                 |
|----------------------------------------|-----------------|
| <b>Number of Questions</b>             | <b>70</b>       |
| <b>Time allowed (hours)</b>            | <b>3</b>        |
| <b>Subject Area</b>                    | <b># Quest.</b> |
| Communication Systems                  | 4               |
| Equipment for General Use              | 6               |
| General Electrical Theory & Principles | 10              |
| Motors & Controls                      | 2               |
| Plan Reading                           | 3               |
| Special Conditions                     | 3               |
| Special Equipment                      | 3               |
| Special Occupancies                    | 2               |
| Wiring & Protection                    | 14              |
| Wiring Methods & Materials             | 23              |

### **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>
- **NFPA 70 - National Electrical Code 2020**, 2020. ISBN: 9781455922970. National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471. Available at [www.nfpa.org](http://www.nfpa.org).

## **Journeyman General Mechanical (2023 edition)**

(UPDATED TO 2023 CODE) Journeyman General Mechanical: The term Journeyman shall mean any person who possesses the required skill, knowledge and experience, as evidenced by three (3) years' proven experience in the trade or craft, or education equivalent thereto, or a combination thereof, but not more than one-half ( 1/2) of such experience may be education equivalent, and who has passed an examination in his or her particular trade or craft and possesses a valid certificate of competency as a journeyman in such trade or craft. There shall be at least one (1) journeyman for every three (3) trainees on each construction or installation job site for which a permit is required, and which involves a trade in which journeyman are required and certified. It shall be the responsibility of the employing contractor, and the qualifying agent, to provide journeymen on each job site in accordance with this section, and failure to do so shall be a violation of this chapter, subject to the penalties provided herein, and provided under Section 1-5 of this Code. In addition, any work in the trade concerned on any such job site wherein journeymen are not provided in accordance with this section shall be stopped by the enforcing

agency or administrative agency concerned until journeymen are so provided. Further, any person working at a trade which requires journeymen on the job site where no journeyman or master in the trade concerned is present shall be in violation of this chapter and subject to the penalties provided herein, and provided under Section 1-5 of this Code. A journeyman may only work in the employ of a contractor holding a certificate of competency in the field in which the journeyman is certified. Journeymen shall be required in the electrical, plumbing and mechanical trades. Journeymen are required to earn continuing education credit during each term the personal certificate of competency is valid as established in this chapter and as required by the board through written rules or regulations commencing October 1, 1995.

|                             |                 |
|-----------------------------|-----------------|
| <b>Number of Questions</b>  | <b>60</b>       |
| <b>Time allowed (hours)</b> | <b>3</b>        |
| <b>Subject Area</b>         | <b># Quest.</b> |
| General Knowledge           | 9               |
| Piping                      | 6               |
| Equipment                   | 13              |
| Maintenance                 | 10              |
| Plan Reading                | 4               |
| Systems & Sizing            | 18              |

### **References**

- **Advanced Mechanical Study Guide , 2nd edition**, 2nd. ISBN: 9781323725184. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at [www.provbookstore.com](http://www.provbookstore.com).
- **Florida Building Code 2023 - Building**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478. <https://shop.iccsafe.org/>
- **Florida Building Code 2023 - Fuel Gas**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478.
- **Florida Building Code 2023 - Mechanical**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478.
- **HVAC Basics for Contractors,3rd Edition**, 3rd Edition. ISBN: 13:9781323725146. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at [www.provbookstore.com](http://www.provbookstore.com).
- **HVAC Level 2 2013**, 2013. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336.
- **HVAC Level 3 2013**, 2013. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336.
- **Intermediate Mechanical Study Guide**, 2015. ISBN: 9781323725221. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at [www.provbookstore.com](http://www.provbookstore.com).
- **Manual N - Commercial Load Calculations**, 2008. ISBN: 978-1892765383. Air Conditioning Contractors of America, 2800 Shirlington Road, Suite 300, Arlington, VA 22206. [www.amazon.com](http://www.amazon.com)

## **Journeyman General Mechanical Spanish (2023 edition)**

Journeyman General Mechanical: The term Journeyman shall mean any person who possesses the required skill, knowledge and experience, as evidenced by three (3) years' proven experience in the trade or craft, or education equivalent thereto, or a combination thereof, but not more than one-half ( 1/2) of such experience may be

education equivalent, and who has passed an examination in his or her particular trade or craft and possesses a valid certificate of competency as a journeyman in such trade or craft. There shall be at least one (1) journeyman for every three (3) trainees on each construction or installation job site for which a permit is required, and which involves a trade in which journeyman are required and certified. It shall be the responsibility of the employing contractor, and the qualifying agent, to provide journeymen on each job site in accordance with this section, and failure to do so shall be a violation of this chapter, subject to the penalties provided herein, and provided under Section 1-5 of this Code. In addition, any work in the trade concerned on any such job site wherein journeymen are not provided in accordance with this section shall be stopped by the enforcing agency or administrative agency concerned until journeymen are so provided. Further, any person working at a trade which requires journeymen on the job site where no journeyman or master in the trade concerned is present shall be in violation of this chapter and subject to the penalties provided herein, and provided under Section 1-5 of this Code. A journeyman may only work in the employ of a contractor holding a certificate of competency in the field in which the journeyman is certified. Journeymen shall be required in the electrical, plumbing and mechanical trades. Journeymen are required to earn continuing education credit during each term the personal certificate of competency is valid as established in this chapter and as required by the board through written rules or regulations commencing October 1, 1995.

|                      |          |
|----------------------|----------|
| Number of Questions  | 60       |
| Time allowed (hours) | 3        |
| Subject Area         | # Quest. |
| General Knowledge    | 9        |
| Piping               | 6        |
| Equipment            | 13       |
| Maintenance          | 10       |
| Plan Reading         | 4        |
| Systems & Sizing     | 18       |

References

- **Advanced Mechanical Study Guide , 2nd edition**, 2nd. ISBN: 9781323725184. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at [www.provbookstore.com](http://www.provbookstore.com).
- **Florida Building Code 2023 - Building**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478. <https://shop.iccsafe.org/>
- **Florida Building Code 2023 - Fuel Gas**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478.
- **Florida Building Code 2023 - Mechanical**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478.
- **HVAC Basics for Contractors,3rd Edition**, 3rd Edition. ISBN: 13:9781323725146. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at [www.provbookstore.com](http://www.provbookstore.com).
- **HVAC Level 2 2013**, 2013. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336.
- **HVAC Level 3 2013**, 2013. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336.
- **Intermediate Mechanical Study Guide**, 2015. ISBN: 9781323725221. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at [www.provbookstore.com](http://www.provbookstore.com).

- **Manual N - Commercial Load Calculations**, 2008. ISBN: 978-1892765383. Air Conditioning Contractors of America, 2800 Shirlington Road, Suite 300, Arlington, VA 22206. [www.amazon.com](http://www.amazon.com)

**Journeyman Plumbing with Gas (2023 edition)**

(UPDATED TO 2023 CODE) Tests a candidate's knowledge of the installation, repair, maintenance, and extension of any plumbing system, including drains, waste, sanitary vents, water supply, fixtures, and indirect wastes; installation, repair, and maintenance of gas piping systems, including gas piping, appliances, vents, flues, tanks, and other related appurtenances.

|                               |          |
|-------------------------------|----------|
| Number of Questions           | 100      |
| Time allowed (hours)          | 2        |
| Subject Area                  | # Quest. |
| Drain, Waste & Vent Systems   | 13       |
| Fixtures & Fittings           | 8        |
| General Knowledge             | 10       |
| Isometrics & Plan Reading     | 10       |
| Plumbing Math                 | 11       |
| Storm & Roof Drainage         | 8        |
| Water Heaters                 | 7        |
| Water Supply and Distribution | 12       |
| Fuel Gas Systems              | 14       |
| Safety                        | 7        |

References

- **Florida Building Code 2023 - Fuel Gas**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478.
- **Florida Building Code 2023 - Plumbing**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478.
- **Plumbing Basics for Contractors, 4th Edition**, 2021. ISBN: 9780137783229. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116.

**Journeyman Residential Electrical 2020**

Tests a candidate's knowledge of the planning, installation, repair, alteration, and maintenance of electric conductors, raceways, and equipment for light, heat, and power in one-, two- and three-family dwellings.

|                              |          |
|------------------------------|----------|
| Number of Questions          | 65       |
| Time allowed (hours)         | 3        |
| Subject Area                 | # Quest. |
| General Electrical Knowledge | 15       |
| Wiring & Protection          | 15       |
| Wiring Methods & Materials   | 10       |
| Equipment for General Use    | 7        |
| Special Occupancies          | 3        |
| Special Equipment            | 2        |
| Special Conditions           | 3        |
| Communication Systems        | 5        |
| Motors & Controls            | 5        |

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>
- **NFPA 70 - National Electrical Code 2020**, 2020. ISBN: 9781455922970. National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471. Available at [www.nfpa.org](http://www.nfpa.org).
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**Journeyman Residential Electrical 2020**  
**(Spanish)**

Tests a candidate's knowledge of the planning, installation, repair, alteration, and maintenance of electric conductors, raceways, and equipment for light, heat, and power in one-, two- and three-family dwellings.

|                              |                 |
|------------------------------|-----------------|
| <b>Number of Questions</b>   | <b>65</b>       |
| <b>Time allowed (hours)</b>  | <b>3</b>        |
| <b>Subject Area</b>          | <b># Quest.</b> |
| Communication Systems        | 5               |
| Equipment for General Use    | 7               |
| General Electrical Knowledge | 15              |
| Motors & Controls            | 5               |
| Special Conditions           | 3               |
| Special Equipment            | 2               |
| Special Occupancies          | 3               |
| Wiring & Protection          | 15              |
| Wiring Methods & Materials   | 10              |

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>
- **NFPA 70 - National Electrical Code 2020**, 2020. ISBN: 9781455922970. National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471. Available at [www.nfpa.org](http://www.nfpa.org).

**Journeyman Residential Plumber (2023 edition)**

(UPDATED TO 2023 CODE) Tests a candidate's knowledge of the installation, repair, maintenance, and extension of a plumbing system, including drains, waste, sanitary vents, water supply, and fixtures as it applies to one and two-family residences, also multiple single-family dwellings (townhouses) not more than three stories in height.

|                             |                 |
|-----------------------------|-----------------|
| <b>Number of Questions</b>  | <b>75</b>       |
| <b>Time allowed (hours)</b> | <b>3</b>        |
| <b>Subject Area</b>         | <b># Quest.</b> |
| Drain, Waste & Vent Systems | 10              |
| Fixtures & Fittings         | 8               |
| General Knowledge           | 10              |

|                               |    |
|-------------------------------|----|
| Isometrics & Plan Reading     | 10 |
| Plumbing Math                 | 9  |
| Storm & Roof Drainage         | 4  |
| Water Heaters                 | 10 |
| Water Supply and Distribution | 10 |
| Safety                        | 4  |

References

- **Florida Building Code 2023 - Residential**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478.
- **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](http://www.provbookstore.com)

**Journeyman Residential Plumber with Gas (2023 edition)**

(UPDATED TO 2023 CODE) Tests a candidate's knowledge of the installation, repair, maintenance, and extension of a plumbing system, including drains, waste, sanitary vents, water supply, and fixtures; installation, maintenance, and repair of a gas system, including piping, appliances, vents, flues, tanks, and related appurtenances as it applies to one- and two-family residences, also multiple single-family dwellings (townhouses) not more than three stories in height.

|                               |                 |
|-------------------------------|-----------------|
| <b>Number of Questions</b>    | <b>75</b>       |
| <b>Time allowed (hours)</b>   | <b>3</b>        |
| <b>Subject Area</b>           | <b># Quest.</b> |
| Drain, Waste & Vent Systems   | 14              |
| Fuel Gas Systems              | 6               |
| Fixtures & Fittings           | 8               |
| General Knowledge             | 12              |
| Isometrics & Plan Reading     | 10              |
| Plumbing Math                 | 10              |
| Safety                        | 4               |
| Storm & Roof Drainage         | 3               |
| Water Heaters                 | 4               |
| Water Supply and Distribution | 4               |

References

- **Florida Building Code 2023 - Fuel Gas**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478.
- **Florida Building Code 2023 - Residential**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478.
- **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](http://www.provbookstore.com)

**Journeyman Sheet Metal (2023 edition)**

(UPDATED TO 2023 CODE) Tests a candidate's knowledge of sheet metal fabrication, intended for the installation, replacement, repair, alteration, and extension of ferrous and Non-ferrous ducting in ventilation and exhaust systems.

|                            |           |
|----------------------------|-----------|
| <b>Number of Questions</b> | <b>60</b> |
|----------------------------|-----------|

|                                 |                 |
|---------------------------------|-----------------|
| <b>Time allowed (hours)</b>     | <b>3</b>        |
| <b>Subject Area</b>             | <b># Quest.</b> |
| Plan Reading, Estimating & Math | 8               |
| Code & General Knowledge        | 8               |
| Layout & Fabrication            | 10              |
| Installation                    | 10              |
| Air Properties & Distribution   | 8               |
| Air Distribution Accessories    | 6               |
| Architectural Sheet Metal       | 4               |
| Safety                          | 6               |

#### References

- **Florida Building Code 2023 - Mechanical**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478.
- **Sheet Metal Level 1**, 2019. ISBN: 978-0-13-662951-1. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116.
- **Sheet Metal Level 2**, 2019. ISBN: 978-0-13-663023-4. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116.
- **Sheet Metal Level 3**, 2019. ISBN: 978-0-13-663060-9. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116.

## Journeyman Sign Electrician 2020

Tests a candidate's knowledge of the planning, 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.

|                                     |                 |
|-------------------------------------|-----------------|
| <b>Number of Questions</b>          | <b>40</b>       |
| <b>Time allowed (hours)</b>         | <b>2</b>        |
| <b>Subject Area</b>                 | <b># Quest.</b> |
| Electrical Signs & Outline Lighting | 13              |
| Grounding & Bonding                 | 5               |
| General Electrical Knowledge        | 6               |
| Motors & Controls                   | 3               |
| Transformers                        | 3               |
| Wiring & Protection                 | 6               |
| Wiring Methods & Materials          | 4               |

#### References

- **American Electrician's Handbook**, 16th Edition. ISBN: 978-0071798808. McGraw Hill Glencoe Order Services, P.O. Box 545, Blacklick, OH 43004. Available at <https://www.mheducation.com/highered/product/american-electricians-handbook-sixteenth-edition-croft-hartwell/9780071798808.html>
- **NFPA 70 - National Electrical Code 2020**, 2020. ISBN: 9781455922970. National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471. Available at [www.nfpa.org](http://www.nfpa.org).

## Journeyman Sign Electrician Spanish (2020 edition)

Tests a candidate's knowledge of the planning, 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.

|                             |           |
|-----------------------------|-----------|
| <b>Number of Questions</b>  | <b>40</b> |
| <b>Time allowed (hours)</b> | <b>2</b>  |

|                                     |                 |
|-------------------------------------|-----------------|
| <b>Subject Area</b>                 | <b># Quest.</b> |
| Electrical Signs & Outline Lighting | 13              |
| Grounding & Bonding                 | 5               |
| General Electrical Knowledge        | 6               |
| Motors & Controls                   | 3               |
| Transformers                        | 3               |
| Wiring & Protection                 | 6               |
| Wiring Methods & Materials          | 4               |

#### References

- **American Electrician's Handbook**, 16th Edition. ISBN: 978-0071798808. McGraw Hill Glencoe Order Services, P.O. Box 545, Blacklick, OH 43004. Available at <https://www.mheducation.com/highered/product/american-electricians-handbook-sixteenth-edition-croft-hartwell/9780071798808.html>
- **NFPA 70 - National Electrical Code 2020**, 2020. ISBN: 9781455922970. National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471. Available at [www.nfpa.org](http://www.nfpa.org).

## Lightning Protection 2020

Those who are qualified to install, maintain, repair or alter any lightning protection system, including all terminals, conductors, ground rods, fittings and all other system fastenings, connections and bonding necessary to complete a system designed to protect structures and open spaces. Electrical installation required to make the system operational may be included in the contract for work but must be subcontracted to a Certified Electrical Contractor.

|                             |           |
|-----------------------------|-----------|
| <b>Number of Questions</b>  | <b>50</b> |
| <b>Time allowed (hours)</b> | <b>2</b>  |

|                              |                 |
|------------------------------|-----------------|
| <b>Subject Area</b>          | <b># Quest.</b> |
| General Electrical Knowledge | 10              |
| Hazardous Structures         | 5               |
| Heavy Duty Stacks            | 6               |
| Ordinary Structures          | 10              |
| Safety                       | 4               |
| Special Occupancies          | 5               |
| Wind Turbines and Watercraft | 5               |
| Explosive Materials          | 5               |

#### 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>

- **NFPA 70 - National Electrical Code 2020**, 2020. ISBN: 9781455922970. National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471. Available at [www.nfpa.org](http://www.nfpa.org).
- **NFPA 780 Standard for the Installation of Lightning Protection Systems**, 2011. National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471. Available at [www.nfpa.org](http://www.nfpa.org).

## Low Voltage 2020

Qualified and certified to install, fabricate, erect, repair, alter, add to or change any electrical wiring, fixtures, appliances, thermostats, apparatus, raceways and conduit, or any part thereof, not to exceed ninety-eight (98) volts, which generates, transmits, transforms or utilizes electrical energy, when those items are for the purpose of transmitting any form of light, heat or communications, including but not limited to telephone, radio, computer and data. A low voltage specialty electrical contractor may connect to an existing separate circuit of approved capacity, which is terminated in an approved outlet, junction box or fused disconnect within six (6) feet of the equipment to be energized.

|                             |           |
|-----------------------------|-----------|
| <b>Number of Questions</b>  | <b>50</b> |
| <b>Time allowed (hours)</b> | <b>2</b>  |

| <b>Subject Area</b>          | <b># Quest.</b> |
|------------------------------|-----------------|
| General Electrical Knowledge | 12              |
| Wiring and Protection        | 5               |
| Wiring Methods & Materials   | 10              |
| Equipment for General Use    | 3               |
| Special Occupancies          | 4               |
| Special Equipment            | 4               |
| Special Conditions           | 4               |
| Communication Systems        | 8               |

### 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>
- **NFPA 70 - National Electrical Code 2020**, 2020. ISBN: 9781455922970. National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471. Available at [www.nfpa.org](http://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](http://www.amazon.com).

## Low Voltage 2020 (Spanish)

Qualified and certified to install, fabricate, erect, repair, alter, add to or change any electrical wiring, fixtures, appliances, thermostats, apparatus, raceways and conduit, or any part thereof, not to exceed ninety-eight (98) volts, which generates, transmits, transforms or utilizes electrical energy, when those items are for the purpose of transmitting any form of light, heat or communications, including but not limited to telephone, radio, computer and data. A low voltage specialty electrical contractor may connect to an existing separate circuit of approved capacity, which is terminated in an approved

outlet, junction box or fused disconnect within six (6) feet of the equipment to be energized.

|                             |           |
|-----------------------------|-----------|
| <b>Number of Questions</b>  | <b>50</b> |
| <b>Time allowed (hours)</b> | <b>2</b>  |

| <b>Subject Area</b>          | <b># Quest.</b> |
|------------------------------|-----------------|
| Communication Systems        | 5               |
| Equipment for General Use    | 4               |
| General Electrical Knowledge | 12              |
| Special Conditions           | 4               |
| Special Equipment            | 3               |
| Special Occupancies          | 3               |
| Wiring and Protection        | 9               |
| Wiring Methods & Materials   | 10              |

### 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>
- **NFPA 70 - National Electrical Code 2020**, 2020. ISBN: 9781455922970. National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471. Available at [www.nfpa.org](http://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](http://www.amazon.com).

## Marine Construction (2023 edition)

(UPDATED TO 2023 CODE) Marine Contractors are those who are qualified with the experience and skill to construct, maintain, alter, install or repair seawalls, bulkheads, revetments, docks, piers, wharfs, groins, boat lifts, davits and other marine structures, including pile driving.

|                             |           |
|-----------------------------|-----------|
| <b>Number of Questions</b>  | <b>75</b> |
| <b>Time allowed (hours)</b> | <b>3</b>  |

| <b>Subject Area</b>                                    | <b># Quest.</b> |
|--------------------------------------------------------|-----------------|
| Carpentry                                              | 10              |
| Florida Building Code application to Marine Structures | 10              |
| Piles                                                  | 10              |
| Plan Reading & Estimating                              | 6               |
| Safety                                                 | 9               |
| Sitework                                               | 10              |
| Structures                                             | 10              |
| Concrete and Reinforcement                             | 10              |

### References

- **Code of Federal Regulations, Title 29, Part 1926**, 2012. ISBN: 9780160911576. Superintendent of Documents, P.O. Box 371954, Pittsburgh, PA 15250-7954. Available at <http://bookstore.gpo.gov>. Candidate printed versions permitted in testing room if exam is open book. OSHA Standards for the Construction Industry is permitted as a substitute for this book.
- **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.

- **FLDOT Structures Detailing Manual, 2013**, 2013. State of Florida, 2600 Blair Stone Road M.S. 3500, Tallahassee, FL 32399. [http://www.dot.state.fl.us/structures/StructuresManual/CurrentRelease/Vol2\\_SDM.pdf](http://www.dot.state.fl.us/structures/StructuresManual/CurrentRelease/Vol2_SDM.pdf) Candidate printed versions allowed if exam is open book.
- **Florida Building Code 2023 - Building**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478. <https://shop.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>
- **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](http://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](http://www.dot.state.fl.us). Candidate printed versions allowed if exam is open book.
- **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](http://www.provbookstore.com)
- **The Dock Manual: Designing/Building/Maintaining**, 1999. ISBN: 978-1-58017-098-7. Storey Publishing, 210 MASS MoCA Way, North Adams, MA 01247. <https://www.storey.com/books/the-dock-manual/#>

## Marine Contractor I (2023 edition)

(UPDATED TO 2023 CODE) Marine Contractor I means any person or firm qualified and certified by the Board to perform any work involving the construction, repair, alteration, extension and excavation for docks, seawalls, bulkheads, piers, wharfs, boatlifts and other marine structures, including pile driving, wood framing and roofing in conjunction with the erection of wood structures being constructed consistent with the marine work that is being done. This wood structure is not to be used for habitation or office space. He may do such concrete work as may be necessary and incidental to his work in compliance with the building code and other applicable codes and regulations.

|                                                        |                 |
|--------------------------------------------------------|-----------------|
| <b>Number of Questions</b>                             | <b>75</b>       |
| <b>Time allowed (hours)</b>                            | <b>2</b>        |
| <b>Subject Area</b>                                    | <b># Quest.</b> |
| Plan Reading & Estimating                              | 6               |
| Sitework                                               | 10              |
| Piles                                                  | 10              |
| Florida Building Code application to Marine Structures | 10              |
| Structures                                             | 10              |
| Carpentry                                              | 10              |
| Concrete and Reinforcement                             | 10              |
| Safety                                                 | 9               |

### References

- **Code of Federal Regulations, Title 29 Labor Pt 1926 Revised as of July 1, 2016**, 2016. ISBN: 978-1354237915. National Archives and Records Administration, College Park, MD. <https://bookstore.gpo.gov>

- **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.
- **FLDOT Structures Detailing Manual 2015**, 2015. State of Florida, 2600 Blair Stone Road M.S. 3500, Tallahassee, FL 32399. [http://www.dot.state.fl.us/structures/StructuresManual/CurrentRelease/Vol2\\_SDM.pdf](http://www.dot.state.fl.us/structures/StructuresManual/CurrentRelease/Vol2_SDM.pdf) Candidate printed versions allowed if exam is open ...
- **Florida Building Code 2023 - Building**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478. <https://shop.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>
- **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](http://www.Contractor-books.com)
- **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](http://www.dot.state.fl.us). Candidate printed versions allowed if exam is open book.
- **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](http://www.provbookstore.com)
- **The Dock Manual: Designing/Building/Maintaining**, 1999. ISBN: 978-1-58017-098-7. Storey Publishing, 210 MASS MoCA Way, North Adams, MA 01247. <https://www.storey.com/books/the-dock-manual/#>

## Master AC (Limited) (2023 edition)

(UPDATED TO 2023 CODE) Tests a candidate's knowledge of the design, installation, maintenance, repair, fabrication, alteration, and extension of air conditioning, refrigeration, heating, ventilation, duct systems, piping vessels, insulation, and related appurtenances within a complete system, limited to 25 tons cooling and 500,000 BTU heating.

|                             |                 |
|-----------------------------|-----------------|
| <b>Number of Questions</b>  | <b>100</b>      |
| <b>Time allowed (hours)</b> | <b>4</b>        |
| <b>Subject Area</b>         | <b># Quest.</b> |
| General Knowledge           | 18              |
| Piping                      | 19              |
| Systems & Sizing            | 20              |
| Equipment                   | 15              |
| Maintenance                 | 23              |
| Plan Reading                | 5               |

### References

- **Advanced Mechanical Study Guide, 2nd edition**, 2nd. ISBN: 9781323725184. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at [www.provbookstore.com](http://www.provbookstore.com).
- **Florida Building Code 2023 - Building**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478. <https://shop.iccsafe.org/>
- **Florida Building Code 2023 - Energy Conservation**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478.
- **Florida Building Code 2023 - Fuel Gas**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478.

- **Florida Building Code 2023 - Mechanical**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478.
- **HVAC Basics for Contractors, 3rd Edition**, 3rd Edition. ISBN: 13:9781323725146. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at [www.provbookstore.com](http://www.provbookstore.com).
- **Intermediate Mechanical Study Guide**, 2015. ISBN: 9781323725221. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at [www.provbookstore.com](http://www.provbookstore.com).
- **Manual N - Commercial Load Calculations**, 2008. ISBN: 978-1892765383. Air Conditioning Contractors of America, 2800 Shirlington Road, Suite 300, Arlington, VA 22206. [www.amazon.com](http://www.amazon.com)
- **Residential Load Calculation - Manual J**, 8th, Version 2.5. ISBN: 9781892765253. Air Conditioning Contractors of America, 2800 Shirlington Road, Suite 300, Arlington, VA 22206.

## **Master AC (Limited) Spanish (2023 edition)**

Tests a candidate's knowledge of the design, installation, maintenance, repair, fabrication, alteration, and extension of air conditioning, refrigeration, heating, ventilation, duct systems, piping vessels, insulation, and related appurtenances within a complete system, limited to 25 tons cooling and 500,000 BTU heating.

|                             |            |
|-----------------------------|------------|
| <b>Number of Questions</b>  | <b>100</b> |
| <b>Time allowed (hours)</b> | <b>4</b>   |

|                     |                 |
|---------------------|-----------------|
| <b>Subject Area</b> | <b># Quest.</b> |
| General Knowledge   | 18              |
| Piping              | 19              |
| Systems & Sizing    | 20              |
| Equipment           | 15              |
| Maintenance         | 23              |
| Plan Reading        | 5               |

### **References**

- **Advanced Mechanical Study Guide , 2nd edition**, 2nd. ISBN: 9781323725184. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at [www.provbookstore.com](http://www.provbookstore.com).
- **Florida Building Code 2023 - Building**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478. <https://shop.iccsafe.org/>
- **Florida Building Code 2023 - Energy Conservation**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478.
- **Florida Building Code 2023 - Fuel Gas**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478.
- **Florida Building Code 2023 - Mechanical**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478.
- **HVAC Basics for Contractors, 3rd Edition**, 3rd Edition. ISBN: 13:9781323725146. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at [www.provbookstore.com](http://www.provbookstore.com).
- **Intermediate Mechanical Study Guide**, 2015. ISBN: 9781323725221. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at [www.provbookstore.com](http://www.provbookstore.com).
- **Manual N - Commercial Load Calculations**, 2008. ISBN: 978-1892765383. Air Conditioning Contractors of America, 2800 Shirlington Road, Suite 300, Arlington, VA 22206. [www.amazon.com](http://www.amazon.com)
- **Residential Load Calculation - Manual J**, 8th, Version 2.5. ISBN: 9781892765253. Air Conditioning Contractors of America, 2800

Shirlington Road, Suite 300, Arlington, VA 22206.

## **Master AC (Unlimited) (2023 edition)**

(UPDATED TO 2023 CODE) Tests a candidate's knowledge of the design, installation, maintenance, repair, fabrication, alteration & extension of Ac/refrigeration, piping vessels, warm air heating, low and high pressure boilers, ventilation systems, duct systems, insulation & related appurtenances within a complete system unlimited in horsepower or tonnage.

|                             |            |
|-----------------------------|------------|
| <b>Number of Questions</b>  | <b>100</b> |
| <b>Time allowed (hours)</b> | <b>4</b>   |

  

|                     |                 |
|---------------------|-----------------|
| <b>Subject Area</b> | <b># Quest.</b> |
| Piping              | 18              |
| Equipment           | 14              |
| Maintenance         | 22              |
| Plan Reading        | 7               |
| Systems & Sizing    | 20              |
| General Knowledge   | 19              |

### **References**

- **Advanced Mechanical Study Guide , 2nd edition**, 2nd. ISBN: 9781323725184. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at [www.provbookstore.com](http://www.provbookstore.com).
- **Florida Building Code 2023 - Building**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478. <https://shop.iccsafe.org/>
- **Florida Building Code 2023 - Energy Conservation**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478.
- **Florida Building Code 2023 - Fuel Gas**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478.
- **Florida Building Code 2023 - Mechanical**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478.
- **HVAC Basics for Contractors, 3rd Edition**, 3rd Edition. ISBN: 13:9781323725146. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at [www.provbookstore.com](http://www.provbookstore.com).
- **Intermediate Mechanical Study Guide**, 2015. ISBN: 9781323725221. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at [www.provbookstore.com](http://www.provbookstore.com).
- **Manual N - Commercial Load Calculations**, 2008. ISBN: 978-1892765383. Air Conditioning Contractors of America, 2800 Shirlington Road, Suite 300, Arlington, VA 22206. [www.amazon.com](http://www.amazon.com)
- **Residential Load Calculation - Manual J**, 8th, Version 2.5. ISBN: 9781892765253. Air Conditioning Contractors of America, 2800 Shirlington Road, Suite 300, Arlington, VA 22206.

## **Master AC (Unlimited) Spanish (2023 edition)**

Tests a candidate's knowledge of the design, installation, maintenance, repair, fabrication, alteration & extension of Ac/refrigeration, piping vessels, warm air heating, low and high pressure boilers, ventilation systems, duct systems, insulation & related appurtenances within a complete system unlimited in horsepower or tonnage.

|                             |            |
|-----------------------------|------------|
| <b>Number of Questions</b>  | <b>100</b> |
| <b>Time allowed (hours)</b> | <b>4</b>   |

|                     |                 |
|---------------------|-----------------|
| <b>Subject Area</b> | <b># Quest.</b> |
| Piping              | 18              |
| Equipment           | 14              |
| Maintenance         | 22              |
| Plan Reading        | 7               |
| Systems & Sizing    | 20              |
| General Knowledge   | 19              |

#### References

- **Advanced Mechanical Study Guide, 2nd edition**, 2nd. ISBN: 9781323725184. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at [www.provbookstore.com](http://www.provbookstore.com).
- **Florida Building Code 2023 - Building**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478. <https://shop.iccsafe.org/>
- **Florida Building Code 2023 - Energy Conservation**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478.
- **Florida Building Code 2023 - Fuel Gas**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478.
- **Florida Building Code 2023 - Mechanical**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478.
- **HVAC Basics for Contractors, 3rd Edition**, 3rd Edition. ISBN: 13:9781323725146. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at [www.provbookstore.com](http://www.provbookstore.com).
- **Intermediate Mechanical Study Guide**, 2015. ISBN: 9781323725221. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at [www.provbookstore.com](http://www.provbookstore.com).
- **Manual N - Commercial Load Calculations**, 2008. ISBN: 978-1892765383. Air Conditioning Contractors of America, 2800 Shirlington Road, Suite 300, Arlington, VA 22206. [www.amazon.com](http://www.amazon.com)
- **Residential Load Calculation - Manual J**, 8th, Version 2.5. ISBN: 9781892765253. Air Conditioning Contractors of America, 2800 Shirlington Road, Suite 300, Arlington, VA 22206.

## Master Electrician (Spanish) 2020

Those who have the knowledge and skill, to install, repair, alter, add to or change any electrical wires, fixtures, appliances, apparatus, raceways, conduit or any part thereof; which generates, transmits, transforms or utilizes electrical energy in any form for light, heat, power or communications, all in compliance with applicable plans, specifications, codes, laws and regulations.

|                             |           |
|-----------------------------|-----------|
| <b>Number of Questions</b>  | <b>75</b> |
| <b>Time allowed (hours)</b> | <b>3</b>  |

|                              |                 |
|------------------------------|-----------------|
| <b>Subject Area</b>          | <b># Quest.</b> |
| Communication Systems        | 3               |
| Equipment for General Use    | 6               |
| General Electrical Knowledge | 12              |
| Motors & Controls            | 4               |
| Plan Reading                 | 4               |
| Special Conditions           | 4               |
| Special Equipment            | 3               |
| Special Occupancies          | 2               |
| Wiring & Protection          | 17              |

|                            |    |
|----------------------------|----|
| Wiring Methods & Materials | 20 |
|----------------------------|----|

#### 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>
- **NFPA 70 - National Electrical Code 2020**, 2020. ISBN: 9781455922970. National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471. Available at [www.nfpa.org](http://www.nfpa.org).

## Master Electrician 2020

Those who have the knowledge and skill to install, repair, alter, add to or change any electrical wires, fixtures, appliances, apparatus, raceways, conduit or any part thereof; which generates, transmits, transforms or utilizes electrical energy in any form for light, heat, power or communications, all in compliance with applicable plans, specifications, codes, laws and regulations.

|                             |           |
|-----------------------------|-----------|
| <b>Number of Questions</b>  | <b>75</b> |
| <b>Time allowed (hours)</b> | <b>3</b>  |

|                              |                 |
|------------------------------|-----------------|
| <b>Subject Area</b>          | <b># Quest.</b> |
| Communication Systems        | 3               |
| Equipment for General Use    | 6               |
| General Electrical Knowledge | 12              |
| Motors & Controls            | 5               |
| Plan Reading                 | 2               |
| Special Conditions           | 4               |
| Special Equipment            | 4               |
| Special Occupancies          | 2               |
| Wiring & Protection          | 17              |
| Wiring Methods & Materials   | 20              |

#### 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>
- **NFPA 70 - National Electrical Code 2020**, 2020. ISBN: 9781455922970. National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471. Available at [www.nfpa.org](http://www.nfpa.org).

## Master Mechanical (2023 edition)

(UPDATED TO 2023 CODE) Master Mechanical shall mean any person whose services are unlimited in the execution of contracts requiring the experience, knowledge, and skill to perform the following; install maintain, repair, fabricate, alter, extend or design (when not prohibited by law) central air conditioning, refrigeration, heating and ventilation (including duct work in connection with a complete system only to the extent such duct work is performed by the Contractor necessary to make complete an air distribution system) boiler and unfired pressure vessel systems, lift stations, equipment and piping and all appurtenances, apparatus, or equipment used in connection therewith; also piping, insulation of pipes, vessels and ducts, pressure and process piping, pneumatic control piping, gasoline tanks and pump

installation and piping for same, fire sprinkling systems and standpipes, air piping, vacuum line piping, oxygen lines, nitrous oxide piping, ink and chemical lines, fuel transmission lines and installation of a condensate drain from an air conditioning unit to an existing safe waste or other approved disposal other than a direct connection to a sanitary system, all in such a manner to comply with all plans, specifications, codes, laws and regulations applicable thereto. The scope of work for such Contractor shall not include any work such as liquefied petroleum or natural gas fuel lines within buildings, potable waterlines or connections thereto, sanitary sewer lines, swimming pool piping and filters and electrical power wiring.

**Number of Questions** 100  
**Time allowed (hours)** 4

| Subject Area      | # Quest. |
|-------------------|----------|
| General Knowledge | 16       |
| Piping            | 12       |
| Systems & Sizing  | 31       |
| Equipment         | 16       |
| Maintenance       | 16       |
| Plan Reading      | 9        |

#### References

- **Advanced Mechanical Study Guide , 2nd edition**, 2nd. ISBN: 9781323725184. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at [www.provbookstore.com](http://www.provbookstore.com).
- **Florida Building Code 2023 - Building**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478. <https://shop.iccsafe.org/>
- **Florida Building Code 2023 - Energy Conservation**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478.
- **Florida Building Code 2023 - Fuel Gas**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478.
- **Florida Building Code 2023 - Mechanical**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478.
- **HVAC Basics for Contractors,3rd Edition**, 3rd Edition. ISBN: 13:9781323725146. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at [www.provbookstore.com](http://www.provbookstore.com).
- **Intermediate Mechanical Study Guide**, 2015. ISBN: 9781323725221. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at [www.provbookstore.com](http://www.provbookstore.com).
- **Manual N - Commercial Load Calculations**, 2008. ISBN: 978-1892765383. Air Conditioning Contractors of America, 2800 Shirlington Road, Suite 300, Arlington, VA 22206. [www.amazon.com](http://www.amazon.com)
- **Residential Load Calculation - Manual J**, 8th, Version 2.5. ISBN: 9781892765253. Air Conditioning Contractors of America, 2800 Shirlington Road, Suite 300, Arlington, VA 22206.

## Master Plumber with Gas (2023 edition)

(UPDATED TO 2023 CODE) Those who have the knowledge and skill to install, maintain, repair, alter or extend plumbing, sanitary drainage or storm drainage facilities, venting systems, public and private water supply systems, septic tanks, drainage and supply wells, swimming pool piping; irrigation systems; or solar heating water systems and all appurtenances, apparatus, or equipment used in connection therewith, including boilers and pressure process piping and including the installation of water and storm and sewer lines, water and sewer

plants and substations; And who are qualified to install, service, modify, alter or repair apparatus, piping, vents, flues, tanks, tubing, appliances, equipment & L.P. and/or Natural gas systems, unlimited with regards to residential or commercial systems.

**Number of Questions** 100  
**Time allowed (hours)** 3

| Subject Area                  | # Quest. |
|-------------------------------|----------|
| Drain, Waste & Vent Systems   | 15       |
| Fuel Gas Systems              | 15       |
| Fixtures & Fittings           | 8        |
| General Knowledge             | 10       |
| Isometrics & Plan Reading     | 8        |
| Plumbing Math                 | 6        |
| Safety                        | 6        |
| Storm & Roof Drainage         | 8        |
| Water Heaters                 | 12       |
| Water Supply and Distribution | 12       |

#### References

- **Florida Building Code 2023 - Fuel Gas**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478.
- **Florida Building Code 2023 - Plumbing**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478.
- **Plumbing Basics for Contractors, 4th Edition**, 2021. ISBN: 9780137783229. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116.

## Master Plumber with Gas Spanish (2023 edition)

(UPDATED TO 2023 CODE) Those who have the knowledge and skill to install, maintain, repair, alter or extend plumbing, sanitary drainage or storm drainage facilities, venting systems, public and private water supply systems, septic tanks, drainage and supply wells, swimming pool piping; irrigation systems; or solar heating water systems and all appurtenances, apparatus, or equipment used in connection therewith, including boilers and pressure process piping and including the installation of water and storm and sewer lines, water and sewer plants and substations; And who are qualified to install, service, modify, alter or repair apparatus, piping, vents, flues, tanks, tubing, appliances, equipment & L.P. and/or Natural gas systems, unlimited with regards to residential or commercial systems.

**Number of Questions** 100  
**Time allowed (hours)** 3

| Subject Area                  | # Quest. |
|-------------------------------|----------|
| Drain, Waste & Vent Systems   | 15       |
| Fuel Gas Systems              | 15       |
| Fixtures & Fittings           | 8        |
| General Knowledge             | 10       |
| Isometrics & Plan Reading     | 8        |
| Plumbing Math                 | 6        |
| Safety                        | 6        |
| Storm & Roof Drainage         | 8        |
| Water Heaters                 | 12       |
| Water Supply and Distribution | 12       |

## References

- **Florida Building Code 2023 - Fuel Gas**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478.
- **Florida Building Code 2023 - Plumbing**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478.
- **Plumbing Basics for Contractors, 4th Edition**, 2021. ISBN: 9780137783229. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116.

## Master Residential Electrical 2020

Tests a candidate's knowledge of the design, plan, installation, repair, alteration, and maintenance of electrical conductors, raceways, and equipment for light, heat, and power in one-, two-, and three-family dwellings.

|                              |                 |
|------------------------------|-----------------|
| <b>Number of Questions</b>   | <b>65</b>       |
| <b>Time allowed (hours)</b>  | <b>3</b>        |
| <b>Subject Area</b>          | <b># Quest.</b> |
| Communication Systems        | 5               |
| Equipment for General Use    | 8               |
| General Electrical Knowledge | 18              |
| Residential Motors           | 5               |
| Special Equipment            | 4               |
| Wiring & Protection          | 13              |
| Wiring Methods & Materials   | 12              |

## 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>
- **NFPA 70 - National Electrical Code 2020**, 2020. ISBN: 9781455922970. National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471. Available at [www.nfpa.org](http://www.nfpa.org).

## Master Residential Plumber with Gas (2023 edition)

(UPDATED TO 2023 CODE) Tests a candidate's knowledge of the design, installation, repair, maintenance, and extension of a plumbing system, including drains, waste, sanitary vents, water supply, and fixtures; design, installation, maintenance, and repair of a gas system, including piping, appliances, vents, flues, tanks, and related appurtenances as it applies to one- and two-family residences, also multiple single-family dwellings (townhouses) not more than three stories in height.

|                             |                 |
|-----------------------------|-----------------|
| <b>Number of Questions</b>  | <b>100</b>      |
| <b>Time allowed (hours)</b> | <b>3</b>        |
| <b>Subject Area</b>         | <b># Quest.</b> |
| Drain, Waste & Vent Systems | 10              |
| Fuel Gas Systems            | 12              |
| Fixtures & Fittings         | 8               |
| General Knowledge           | 10              |

|                               |    |
|-------------------------------|----|
| Isometrics & Plan Reading     | 18 |
| Plumbing Math                 | 7  |
| Safety                        | 6  |
| Storm & Roof Drainage         | 4  |
| Water Heaters                 | 7  |
| Water Supply and Distribution | 18 |

## References

- **Florida Building Code 2023 - Fuel Gas**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478.
- **Florida Building Code 2023 - Residential**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478.
- **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](http://www.provbookstore.com)

## Master Sheet Metal (2023 edition)

(UPDATED TO 2023 CODE) Sheet Metal Contractor is a specialty mechanical contractor qualified and certified to manufacture, assemble, cast, cut, shape, stamp, forge, fabricate, weld, repair, recondition, adjust and install sheet and rolled metal of any kind or combination and all other materials used in lieu thereof, and including all air-veyor systems and air handling systems regardless of materials used including all equipment and all reinforcements in connection therewith.

|                                 |                 |
|---------------------------------|-----------------|
| <b>Number of Questions</b>      | <b>75</b>       |
| <b>Time allowed (hours)</b>     | <b>3</b>        |
| <b>Subject Area</b>             | <b># Quest.</b> |
| Plan Reading, Estimating & Math | 8               |
| Code & General Knowledge        | 13              |
| Layout & Fabrication            | 12              |
| Installation                    | 10              |
| Air Properties & Distribution   | 8               |
| Air Distribution Accessories    | 8               |
| Chimneys, Flues & Exhaust       | 6               |
| Architectural Sheet Metal       | 4               |
| Safety                          | 6               |

## References

- **Florida Building Code 2023 - Mechanical**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478.
- **Sheet Metal Level 1**, 2019. ISBN: 978-0-13-662951-1. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116.
- **Sheet Metal Level 2**, 2019. ISBN: 978-0-13-663023-4. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116.
- **Sheet Metal Level 3**, 2019. ISBN: 978-0-13-663060-9. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116.
- **Sheet Metal Level 4**, 2019. ISBN: 978-0-13-663222-1. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116.

## Master TV Antenna (2020 edition)

A Master TV Antenna Specialty Electrical Contractor is qualified and certified to install, repair, alter, add to or change any privately owned

TV antenna systems on and in multiple occupancy, residential or commercial buildings of three (3) or more tenants, rooms or apartments all connected to a central master system, as well as in theaters, schools and like public occupancies. Such systems may be electrically energized in whole or in part for the reception, amplification and distribution of TV signals. The scope of these systems shall include conductors and raceways, radio frequency carriers, laser beams and any other means of signal transmission as well as all apparatus pertaining to master TV antenna systems, including but not limited to amplifiers, splitters, cables and outlets for connecting individual TV sets. A master TV antenna specialty electrical contractor may connect to an existing separate circuit of approved capacity, which is terminated to an approved outlet, junction box.

|                                                           |                 |
|-----------------------------------------------------------|-----------------|
| <b>Number of Questions</b>                                | <b>75</b>       |
| <b>Time allowed (hours)</b>                               | <b>3</b>        |
| <b>Subject Area</b>                                       | <b># Quest.</b> |
| General Electrical Knowledge                              | 15              |
| Low Voltage, Signaling & Remote Control                   | 12              |
| Radio & Television Equipment                              | 9               |
| Community antenna television & radio distribution systems | 12              |
| Grounding & Bonding                                       | 19              |
| Safety                                                    | 8               |

#### 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>
- **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.
- **NFPA 70 - National Electrical Code 2020**, 2020. ISBN: 9781455922970. National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471. Available at [www.nfpa.org](http://www.nfpa.org).

### **Mechanical Maintenance (2023 edition)**

(UPDATED TO 2023 CODE) Mechanical Maintenance man is a person qualified and certified by examination to maintain mechanical installations. The work of a mechanical maintenance man shall be confined to repairing, maintaining, servicing of existing systems involving air conditioning, refrigeration, heating, ventilation and pressure and process piping contained and used upon the premises or building owned, occupied or otherwise controlled by the person, firm or corporation by whom the mechanical maintenance man is regularly employed. A certified mechanical master or journeyman shall automatically qualify as a mechanical maintenance man.

|                             |                 |
|-----------------------------|-----------------|
| <b>Number of Questions</b>  | <b>50</b>       |
| <b>Time allowed (hours)</b> | <b>3</b>        |
| <b>Subject Area</b>         | <b># Quest.</b> |
| General Knowledge           | 6               |
| Piping                      | 6               |

|                  |    |
|------------------|----|
| Equipment        | 10 |
| Maintenance      | 18 |
| Plan Reading     | 3  |
| Systems & Sizing | 7  |

#### References

- **Advanced Mechanical Study Guide , 2nd edition**, 2nd. ISBN: 9781323725184. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at [www.provbookstore.com](http://www.provbookstore.com).
- **Florida Building Code 2023 - Building**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478. <https://shop.iccsafe.org/>
- **Florida Building Code 2023 - Fuel Gas**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478.
- **Florida Building Code 2023 - Mechanical**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478.
- **HVAC Basics for Contractors,3rd Edition**, 3rd Edition. ISBN: 13:9781323725146. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at [www.provbookstore.com](http://www.provbookstore.com).
- **Intermediate Mechanical Study Guide**, 2015. ISBN: 9781323725221. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at [www.provbookstore.com](http://www.provbookstore.com).

### **Mechanical Maintenance Spanish (2023 edition)**

Mechanical Maintenance man is a person qualified and certified by examination to maintain mechanical installations. The work of a mechanical maintenance man shall be confined to repairing, maintaining, servicing of existing systems involving air conditioning, refrigeration, heating, ventilation and pressure and process piping contained and used upon the premises or building owned, occupied or otherwise controlled by the person, firm or corporation by whom the mechanical maintenance man is regularly employed. A certified mechanical master or journeyman shall automatically qualify as a mechanical maintenance man.

|                             |                 |
|-----------------------------|-----------------|
| <b>Number of Questions</b>  | <b>50</b>       |
| <b>Time allowed (hours)</b> | <b>3</b>        |
| <b>Subject Area</b>         | <b># Quest.</b> |
| General Knowledge           | 6               |
| Piping                      | 6               |
| Equipment                   | 10              |
| Maintenance                 | 18              |
| Plan Reading                | 3               |
| Systems & Sizing            | 7               |

#### References

- **Advanced Mechanical Study Guide , 2nd edition**, 2nd. ISBN: 9781323725184. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at [www.provbookstore.com](http://www.provbookstore.com).
- **Florida Building Code 2023 - Building**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478. <https://shop.iccsafe.org/>
- **Florida Building Code 2023 - Fuel Gas**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478.

- **Florida Building Code 2023 - Mechanical**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478.
- **HVAC Basics for Contractors, 3rd Edition**, 3rd Edition. ISBN: 13:9781323725146. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at [www.provbookstore.com](http://www.provbookstore.com).
- **Intermediate Mechanical Study Guide**, 2015. ISBN: 9781323725221. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at [www.provbookstore.com](http://www.provbookstore.com).

## **Pile Driving & Foundation Engineering Contractor (2023 edition)**

(UPDATED TO 2023 CODE) 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.

|                             |           |
|-----------------------------|-----------|
| <b>Number of Questions</b>  | <b>50</b> |
| <b>Time allowed (hours)</b> | <b>2</b>  |

| <b>Subject Area</b>                       | <b># Quest.</b> |
|-------------------------------------------|-----------------|
| Sitework and Soils                        | 5               |
| Excavating                                | 5               |
| Foundations & Piling                      | 10              |
| Concrete Forming, Reinforcement & Placing | 10              |
| Pile Installation                         | 8               |
| Estimating and Plan Reading               | 6               |
| Safety & Rigging                          | 6               |

### **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.
- **Basic Safety**. ISBN: 9781323676189. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at [www.provbookstore.com](http://www.provbookstore.com).
- **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/>.
- **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 2023 - Building**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478. <https://shop.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](http://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](http://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](http://www.provbookstore.com)

## **Pool Maintenance (2023 edition)**

(UPDATED TO 2023 CODE) Tests a candidate's knowledge of service, maintenance, and treatment of water in all swimming pools, spas, and hot tubs. Includes equipment, pumps, filters, chemical feeders, and minor repairs to pool masonry, patching cracks, and repainting and resurfacing pool walls and bottoms.

|                             |           |
|-----------------------------|-----------|
| <b>Number of Questions</b>  | <b>50</b> |
| <b>Time allowed (hours)</b> | <b>3</b>  |

| <b>Subject Area</b> | <b># Quest.</b> |
|---------------------|-----------------|
| Calculations        | 8               |
| Filtration          | 6               |
| Circulation         | 8               |
| Disinfection        | 7               |
| Testing             | 8               |
| Management          | 3               |
| Repairs             | 4               |
| Safety              | 6               |

### **References**

- **Florida Administrative Code, Ch. 64E-9, Public Swimming Pools & Bathing Places**, 2009. State of Florida, 2600 Blair Stone Road M.S. 3500, Tallahassee, FL 32399. available at [http://www.floridahealth.gov/environmental-health/swimming-pools/\\_documents/64E-9\\_FAC\\_Draft\\_Rev7\\_no\\_strike.pdf](http://www.floridahealth.gov/environmental-health/swimming-pools/_documents/64E-9_FAC_Draft_Rev7_no_strike.pdf) Candidate printed versions allowed if exam is open book
- **Florida Building Code 2023 - Building**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478. <https://shop.iccsafe.org/>
- **Florida Building Code 2023 - Residential**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478.
- **Pool & Spa Operator Handbook 2014**, 2014. ISBN: 0-9845863-7-0. National Swimming Pool Foundation, 4775 Granby Circle, Colorado Springs, CO 80919. [www.nspf.org](http://www.nspf.org)

## **Residential AC (2023 edition)**

(UPDATED TO 2023 CODE) Tests a candidate's knowledge of the installation, maintenance, repair, alteration, and extension of residential air conditioning systems, related warm air heating, ventilation, and duct systems, not to exceed five tons cooling capacity per unit.

|                             |            |
|-----------------------------|------------|
| <b>Number of Questions</b>  | <b>100</b> |
| <b>Time allowed (hours)</b> | <b>3</b>   |

| <b>Subject Area</b> | <b># Quest.</b> |
|---------------------|-----------------|
| Equipment           | 16              |
| General Knowledge   | 16              |
| Maintenance         | 24              |
| Piping              | 8               |
| Plan Reading        | 2               |
| Systems & Sizing    | 34              |

References

- **Advanced Mechanical Study Guide , 2nd edition**, 2nd. ISBN: 9781323725184. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at [www.provbookstore.com](http://www.provbookstore.com).
- **Florida Building Code 2023 - Energy Conservation**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478.
- **Florida Building Code 2023 - Fuel Gas**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478.
- **Florida Building Code 2023 - Mechanical**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478.
- **Florida Building Code 2023 - Residential**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478.
- **HVAC Basics for Contractors,3rd Edition**, 3rd Edition. ISBN: 13:9781323725146. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at [www.provbookstore.com](http://www.provbookstore.com).
- **Intermediate Mechanical Study Guide**, 2015. ISBN: 9781323725221. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at [www.provbookstore.com](http://www.provbookstore.com).

**Residential Contractor (2023 edition)**

Residential Contractor means a contractor whose services are limited to construction, remodeling, repair, or improvement of one-family, two-family, or three-family residences not exceeding two (2) habitable stories above no more than one uninhabitable story and accessory use structure in connection therewith. As regulated under Florida Statute, a person who has passed a competency examination as a Residential Contractor may perform these or related tasks or may supervise persons in his employ in the execution of these tasks.

|                            |          |
|----------------------------|----------|
| Number of Questions        | 60       |
| Time allowed (hours)       | 3        |
| Subject Area               | # Quest. |
| Plan Reading               | 6        |
| Sitework & Foundations     | 5        |
| Concrete and Reinforcement | 8        |
| Masonry                    | 8        |
| Carpentry                  | 10       |
| Roofing                    | 4        |
| Interior Finishes          | 5        |
| Exterior Finishes          | 5        |
| Associated Trades          | 4        |
| Safety                     | 5        |

References

- **Basic Safety**. ISBN: 9781323676189. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at [www.provbookstore.com](http://www.provbookstore.com).
- **Florida Building Code 2023 - Residential**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478.
- **Masonry and Sitework for the Residential Contractor, 2nd edition**, 2nd. ISBN: 978-1-269-78556-3. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at [www.provbookstore.com](http://www.provbookstore.com)
- **Study Guide for Residential Carpentry and Repair, 2nd edition**, 2014. ISBN: 978-1-269-78561-7. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at [www.provbookstore.com](http://www.provbookstore.com)

- **Or, if the book above is unavailable, it may be substituted by the following**. Substitute references shown below..
- **Residential Home Builder Study Guide**. ISBN: 9781323550915. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at [www.provbookstore.com](http://www.provbookstore.com).

**Residential Contractor Spanish (2023 edition)**

Residential Contractor means a contractor whose services are limited to construction, remodeling, repair, or improvement of one-family, two-family, or three-family residences not exceeding two (2) habitable stories above no more than one uninhabitable story and accessory use structure in connection therewith. As regulated under Florida Statute, a person who has passed a competency examination as a Residential Contractor may perform these or related tasks or may supervise persons in his employ in the execution of these tasks.

|                            |          |
|----------------------------|----------|
| Number of Questions        | 60       |
| Time allowed (hours)       | 3        |
| Subject Area               | # Quest. |
| Plan Reading               | 6        |
| Sitework & Foundations     | 5        |
| Concrete and Reinforcement | 8        |
| Masonry                    | 8        |
| Carpentry                  | 10       |
| Roofing                    | 4        |
| Interior Finishes          | 5        |
| Exterior Finishes          | 5        |
| Associated Trades          | 4        |
| Safety                     | 5        |

References

- **Basic Safety**. ISBN: 9781323676189. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at [www.provbookstore.com](http://www.provbookstore.com).
- **Florida Building Code 2023 - Residential**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478.
- **Masonry and Sitework for the Residential Contractor, 2nd edition**, 2nd. ISBN: 978-1-269-78556-3. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at [www.provbookstore.com](http://www.provbookstore.com)
- **Study Guide for Residential Carpentry and Repair, 2nd edition**, 2014. ISBN: 978-1-269-78561-7. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at [www.provbookstore.com](http://www.provbookstore.com)
- **Or, if the book above is unavailable, it may be substituted by the following**. Substitute references shown below..
- **Residential Home Builder Study Guide**. ISBN: 9781323550915. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at [www.provbookstore.com](http://www.provbookstore.com).

**Residential Swimming Pool (2023 edition)**

(UPDATED TO 2023 CODE) Tests a candidate's knowledge of the construction, service, and repair of residential swimming pools. Does not include direct connections to a sanitary sewer system nor to potable water lines, nor the grounding and bonding of metal surfaces, nor the making of any electrical connections.

|                                              |                 |
|----------------------------------------------|-----------------|
| <b>Number of Questions</b>                   | <b>50</b>       |
| <b>Time allowed (hours)</b>                  | <b>3</b>        |
| <b>Subject Area</b>                          | <b># Quest.</b> |
| Plan Reading & Estimating                    | 5               |
| Site Preparation, Excavation and Backfilling | 6               |
| Pool Shell Construction                      | 13              |
| Interior Surface Preparation and Finishing   | 6               |
| Tile, Coping and Trimwork                    | 5               |
| Accessory Work                               | 5               |
| Care and Operation                           | 6               |
| Safety                                       | 4               |

#### References

- **Basic Safety.** ISBN: 9781323676189. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at [www.provbookstore.com](http://www.provbookstore.com).
- **Builder's Guide to Swimming Pool Construction,** 2005. ISBN: 978-1889892504. Builder's Book, Inc., 8001 Canoga Avenue, Canoga Park, CA 91304. Available at [www.amazon.com](http://www.amazon.com).
- **Florida Building Code 2023 - Residential,** 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478.

### Roofing Spanish (2023 edition)

A Roofing Contractor is a contractor qualified and certified to install, repair and replace roof systems, as defined in the South Florida Building Code, and the waterproofing thereof. Work may include, but shall not be limited to, roof deck insulation, roof coating, painting and covering, including use of sheet metal and installation of other sheet metal products incidental to roofing work, including gutters and downspouts, and other material in connection therewith or any combination thereof and including installation of nonstructural decking and siding. During the repair or replacement process of a roof system, a roofing contractor shall be allowed to repair and/or replace damaged decking and/or damaged wood structural or nonstructural members of the roof framing, provided that such replacement and/or repair conforms to the requirements of the South Florida Building Code and the repair or replacement of damaged decking and wood structural or nonstructural members of the roof framing constitutes less than fifty (50) percent of the value of the total work performed.

|                             |                 |
|-----------------------------|-----------------|
| <b>Number of Questions</b>  | <b>50</b>       |
| <b>Time allowed (hours)</b> | <b>2</b>        |
| <b>Subject Area</b>         | <b># Quest.</b> |
| Deck & Underlayment         | 6               |
| Flashing                    | 5               |
| High Slope Roofing          | 15              |
| Low Slope Roofing           | 9               |
| Plan Reading & Estimating   | 8               |
| Safety                      | 7               |

#### References

- **Core 2015, 27202-13 Roofing Applications, & 27403-14 Advanced Roof Systems.** Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116.
- **Florida Building Code 2023 - Building,** 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478. <https://shop.iccsafe.org/>

- **Or, if the book above is unavailable, it may be substituted by the following.** Substitute references shown below..
- **Roofing - Study Guide,** 2018. ISBN: 978132388055. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116.

### Roofing Unlimited (2023 edition)

(UPDATED TO 2023 CODE) Tests a candidate's knowledge of the installation, repair, and replacement of roof coverings, including roof deck insulation, roof coating, painting, covering, use of sheet metal products incidental to roofing work or other related material, and installation of nonstructural decking and siding.

|                             |                 |
|-----------------------------|-----------------|
| <b>Number of Questions</b>  | <b>50</b>       |
| <b>Time allowed (hours)</b> | <b>2</b>        |
| <b>Subject Area</b>         | <b># Quest.</b> |
| Plan Reading & Estimating   | 8               |
| Deck & Underlayment         | 6               |
| Flashing                    | 5               |
| High Slope Roofing          | 15              |
| Low Slope Roofing           | 9               |
| Safety                      | 7               |

#### References

- **Florida Building Code 2023 - Building,** 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478. <https://shop.iccsafe.org/>
- **Roofing - Study Guide,** 2018. ISBN: 978132388055. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116.
- **Or, if the book above is unavailable, it may be substituted by the following.** Substitute references shown below..
- **Core 2015, 27202-13 Roofing Applications, & 27403-14 Advanced Roof Systems.** Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116.

### Siding, Windows & Doors (2023 edition)

(UPDATED TO 2023 CODE) Tests a candidate's knowledge of siding, window and door installation including vinyl, wood or aluminum siding, soffit, fascia, gutters and all types of windows and doors. This includes the work necessary to prepare or repair the substrate to accomplish proper installation. Does not include any structural alterations.

|                                           |                 |
|-------------------------------------------|-----------------|
| <b>Number of Questions</b>                | <b>50</b>       |
| <b>Time allowed (hours)</b>               | <b>2</b>        |
| <b>Subject Area</b>                       | <b># Quest.</b> |
| Plan Reading & Estimating                 | 6               |
| Building Materials, Fasteners & Adhesives | 4               |
| Windows & Exterior Doors                  | 6               |
| Thermal & Moisture Protection             | 8               |
| Exterior Finishing                        | 15              |
| Doors & Hardware                          | 6               |
| Safety                                    | 5               |

#### References

- **Florida Building Code 2023 - Building**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478. <https://shop.iccsafe.org/>
- **Study Guide for Siding & Finish Carpentry**, 2nd Edition. ISBN: 9781323963364. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116. Available at [www.provbookstore.com](http://www.provbookstore.com).

## **Sign Contractor (Non-Electric) (2023 edition)**

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

|                             |                 |
|-----------------------------|-----------------|
| <b>Number of Questions</b>  | <b>49</b>       |
| <b>Time allowed (hours)</b> | <b>2</b>        |
| <b>Subject Area</b>         | <b># Quest.</b> |
| Plan Reading                | 4               |
| Concrete and Reinforcement  | 9               |
| Wood                        | 6               |
| Structural Steel            | 8               |
| Welding                     | 7               |
| Non-Electric Sign           | 8               |
| Safety                      | 7               |

### **References**

- **Carpentry Level One, 2022 edition**, 2022. Pearson, 501 Boylston Street, Suite 900, Boston, MA 02116.
- **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 2020 - Building**, 2020. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478. [www.iccsafe.org](http://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>.

## **Solar Water Heating Contractor (2023 edition)**

(UPDATED TO 2023 CODE) Tests a candidate's knowledge of the installation, alteration, repair, and replacement of any solar heating system including swimming pool applications. Includes collectors, storage and expansion tanks, heat exchangers, piping, valves, pumps, sensors, and low voltage controls that connect to existing plumbing and electrical circuits.

|                                                    |                 |
|----------------------------------------------------|-----------------|
| <b>Number of Questions</b>                         | <b>50</b>       |
| <b>Time allowed (hours)</b>                        | <b>2</b>        |
| <b>Subject Area</b>                                | <b># Quest.</b> |
| Plan Reading & Estimating                          | 5               |
| Florida Building Code application to Solar Heating | 5               |
| Solar Concepts                                     | 6               |
| Solar Water Heating Systems                        | 6               |
| Solar Water Heating System Installation            | 6               |
| Solar Water Heating System Troubleshooting         | 6               |

|                               |   |
|-------------------------------|---|
| Swimming Pool Heating Systems | 6 |
| Materials                     | 5 |
| Safety                        | 5 |

### **References**

- **Florida Building Code 2023 - Energy Conservation**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478.
- **Florida Building Code 2023 - Mechanical**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478.
- **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](http://www.provbookstore.com)
- **Solar Water and Pool Heating Manual**, 2006. ISBN: FSEC-IN-24. University of Central Florida - UCF FL Solar Energy Center, 1679 Clearlake Road, Cocoa, FL 32922-5703. [https://secure.fsec.ucf.edu/fsecstore/do/product/Publications/SWPHM](https://secure.fsec.ucf.edu/fsecstore/do/product/Publications/SWPHM%20Manual) anual

## **Swimming Pool Maintenance Unlimited (2023 edition)**

(UPDATED TO 2023 CODE) Swimming Pool Maintenance Contractor (unlimited) is a contractor qualified and certified to do the work of a swimming pool maintenance contractor (limited) and is covered by the same definition except that the swimming pool maintenance contractor (unlimited) shall be able to carry on all such work in connection with both private and public pools.

|                             |                 |
|-----------------------------|-----------------|
| <b>Number of Questions</b>  | <b>75</b>       |
| <b>Time allowed (hours)</b> | <b>3</b>        |
| <b>Subject Area</b>         | <b># Quest.</b> |
| Calculations                | 9               |
| Circulation                 | 10              |
| Disinfection                | 10              |
| Filtration                  | 14              |
| Management                  | 7               |
| Repairs                     | 5               |
| Safety                      | 10              |
| Testing                     | 10              |

### **References**

- **Florida Administrative Code, Ch. 64E-9, Public Swimming Pools & Bathing Places**, 2009. State of Florida, 2600 Blair Stone Road M.S. 3500, Tallahassee, FL 32399. available at [http://www.floridahealth.gov/environmental-health/swimming-pools/\\_documents/64E-9\\_FAC\\_Draft\\_Rev7\\_no\\_strike.pdf](http://www.floridahealth.gov/environmental-health/swimming-pools/_documents/64E-9_FAC_Draft_Rev7_no_strike.pdf) Candidate printed versions allowed if exam is open book
- **Florida Building Code 2023 - Building**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478. <https://shop.iccsafe.org/>
- **Florida Building Code 2023 - Residential**, 2023. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478.
- **Pool & Spa Operator Handbook 2014**, 2014. ISBN: 0-9845863-7-0. National Swimming Pool Foundation, 4775 Granby Circle, Colorado Springs, CO 80919. [www.nspf.org](http://www.nspf.org)