Miami-Dade County Regulatory and Economic Resources Department Exam Descriptions

Updated 02/24/2020
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- Structural Steel Erection
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- Unit Masonry, Marble & Exterior Veneer Contractor
- Unit Masonry, Marble & Exterior Veneer Contractor Spanish
- Appendix - Reference Books & costs - Available at www.provbookstore.com
Building Contractor

Building Contractor is a contractor whose services are limited to construction of commercial buildings and single dwelling or multiple dwelling residential buildings, which commercial or residential buildings do not exceed three (3) 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 and has a qualifying agent with the experience, knowledge, and skill gained by not less than four (4) years' experience for a State of Florida certified or registered general, general building, building or sub-general contractor with at least one (1) year as either a superintendent or foreman or has an accredited college-level education in a construction related field equivalent thereto, or any combination thereof, with at least one year of proven experience as a superintendent or foreman and who has satisfactorily passed a building contractors' examination. A building contractor may construct, contract for, and take out permits for the work of any specialty building contractor subject to the limitations contained herein.

Number of Questions 75
Time allowed (hours) 3

Subject Area # Quest.
Plan Reading & Estimating 9
Sitework 5
Concrete 12
Masonry 8
Structural Steel 4
Carpentry & Metal Framing 10
Roofing 4
Associated Trades 3
Interior Finishes 4
Exterior Finishes 4
Safety 7
Hurricane Zone Building Contractor 5

References
- **Masonry Level Three**, 2014. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336.
Building Contractor (Haitian Creole)

Building Contractor is a contractor whose services are limited to construction of commercial buildings and single dwelling or multiple dwelling residential buildings, which commercial or residential buildings do not exceed three (3) 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 and has a qualifying agent with the experience, knowledge, and skill gained by not less than four (4) years' experience for a State of Florida certified or registered general, general building, building or sub-general contractor with at least one (1) year as either a superintendent or foreman or has an accredited college-level education in a construction related field equivalent thereto, or any combination thereof, with at least one year of proven experience as a superintendent or foreman and who has satisfactorily passed a building contractors' examination. A building contractor may construct, contract for, and take out permits for the work of any specialty building contractor subject to the limitations contained herein.

Number of Questions 75
Time allowed (hours) 3

Subject Area

| Plan Reading & Estimating | 9 |
| Sitework | 5 |
| Concrete | 12 |
| Masonry | 8 |
| Structural Steel | 4 |
| Carpentry & Metal Framing | 10 |
| Roofing | 4 |
| Associated Trades | 3 |
| Interior Finishes | 4 |
| Exterior Finishes | 4 |
| Safety | 7 |
| Hurricane Zone Building Contractor | 5 |

References


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Building Contractor (Spanish)

Building Contractor is a contractor whose services are limited to construction of commercial buildings and single dwelling or multiple dwelling residential buildings, which commercial or residential buildings do not exceed three (3) 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 and has a qualifying agent with the experience, knowledge, and skill gained by not less than four (4) years' experience for a State of Florida certified or registered general, general building, building or sub-general contractor with at least one (1) year as either a superintendent or foreman or has an accredited college-level education in a construction related field equivalent thereto, or any combination thereof, with at least one year of proven experience as a superintendent or foreman and who has satisfactorily passed a building contractors' examination. A building contractor may construct, contract for, and take out permits for the work of any specialty building contractor subject to the limitations contained herein.

- **Number of Questions**: 75
- **Time allowed (hours)**: 3

**Subject Area**

- Plan Reading & Estimating: 9
- Sitework: 5
- Concrete: 12
- Masonry: 8
- Structural Steel: 4
- Carpentry & Metal Framing: 10
- Roofing: 4
- Associated Trades: 3
- Interior Finishes: 4
- Exterior Finishes: 4
- Safety: 7
- Hurricane Zone Building Contractor: 5

**References**

- **Masonry Level Three**, 2014. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336.
Building Maintenance

A Building Maintenanceman is a person qualified and certified by examination to maintain buildings and structures owned or occupied by the person, firm or corporation by which the building maintenanceman is regularly employed. The work of a building maintenanceman shall be confined to the erection, repair or relocation of nonbearing interior partitions, painting, the patching of stucco and plaster, the repair of floors of all types, the repair of cabinets and counters of wood, metal or plastic, the repair of awnings and canopies, the repair of wall and floor tile. A building maintenanceman may make only repairs to bearing walls, both interior and exterior, and roofing work shall be limited to stoppage of leaks. A building maintenanceman shall not make addition to or change the outline of any building or structure, and the work of a building maintenanceman shall not include plumbing, electrical, mechanical or liquefied petroleum gas work of any kind.

Number of Questions  75
Time allowed (hours)  3

Subject Area # Quest.
Concrete  4
Carpentry  14
Doors & Windows  4
Drywall  6
Painting  12
Interior Finishes  6
Exterior Finishes  6
Thermal & Moisture Protection  3
Safety  9
Hurricane Zones for Building Maintenance  11

References

Building Maintenance (Spanish)

A Building Maintenance man is a person qualified and certified by examination to maintain buildings and structures owned or occupied by the person, firm or corporation by which the building maintenance man is regularly employed. The work of a building maintenance man shall be confined to the erection, repair or relocation of nonbearing interior partitions, painting, the patching of stucco and plaster, the repair of floors of all types, the repair of cabinets and counters of wood, metal or plastic, the repair of awnings and canopies, the repair of wall and floor tile. A building maintenance man may make only repairs to bearing walls, both interior and exterior, and roofing work shall be limited to stoppage of leaks. A building maintenance man shall not make addition to or change the outline of any building or structure, and the work of a building maintenance man shall not include plumbing, electrical, mechanical or liquefied petroleum gas work of any kind.

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<td>Safety</td>
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<td>Hurricane Zones for Building Maintenance</td>
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References

Business Procedures

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

Number of Questions: 75
Time allowed (hours): 3

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

References

- **Dade County Municipal Code - Chapter 10**, 2015. Dade County Florida, FL. Available at www.municode.com/Library/FL/Miami_-_Dade_County. Candidate printed versions permitted in testing room if exam is open ...
Business Procedures (Haitian Creole)

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.

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- **Dade County Municipal Code - Chapter 10**, 2015. Dade County Florida, FL. Available at www.municode.com/Library/FL/Miami_-_Dade_County. Candidate printed versions permitted in testing room if exam is open ...
Business Procedures (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.

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- **Dade County Municipal Code - Chapter 10**, 2015. Dade County Florida, FL. Available at www.municode.com/Library/FL/Miami_Dade_County. Candidate printed versions permitted in testing room if exam is open ...

Concrete Forming and Placing

A Concrete Forming and Placing is qualified and certified to proportion, batch and mix aggregates, cement and water to agreed specifications; to construct forms and framework for the casting and shaping of concrete, including but not limited to columns, beams, decks and window frames; to place and erect reinforcing steel and miscellaneous embedded steel; and to pour, place and finish concrete, including terrazzo.

Number of Questions 75
Time allowed (hours) 2

Subject Area # Quest.
Plan Reading & Estimating 6
Properties of Concrete 8
Preparation for Placement 5
Reinforcement 6
Formwork 7
Placement & Finishing 13
Specialized Installations & Finishes 8
Quality Control & Curing 17
Safety 5

References


Concrete Forming and Placing (Spanish)

A Concrete Forming and Placing is qualified and certified to proportion, batch and mix aggregates, cement and water to agreed specifications; to construct forms and framework for the casting and shaping of concrete, including but not limited to columns, beams, decks and window frames; to place and erect reinforcing steel and miscellaneous embedded steel; and to pour, place and finish concrete, including terrazzo.

Number of Questions 75
Time allowed (hours) 3

Subject Area # Quest.
Plan Reading & Estimating 6
Properties of Concrete 9
Preparation for Placement 5
Reinforcement 6
Formwork 7
Placement & Finishing 12
Specialized Installations & Finishes 8
Quality Control & Curing 17
Safety 5

References


Concrete Slab Sawing & Core Drilling Contractor

SCOPE: Concrete Slab Sawing and Core Drilling Contractor is a contractor qualified and certified to cut and/or core concrete, asphalt or any masonry combination thereof. Where cutting or coring is done on any structural member of any building or structure, it shall be under the direct supervision of the general or prime contractor and professional engineer who is responsible for that building or structure. All cutting or coring is to be approved by and coordinated between the general or prime contractor and the specialty or subcontractor as to the layout of the work to be performed. Such contractor shall have a qualifying agent with experience and skill gained by at least one (1) year’s practical work in this field and who has passed a designated examination.

Number of Questions 75
Time allowed (hours) 3

Subject Area # Quest.
Plan Reading & Estimating 4
Properties of Concrete 16
Tools & Equipment 5
Reinforcement 10
Types of Concrete Construction 20
Rigging Equipment & Practices 6
Safety 7
Building and Municipal Codes 7

References

Concrete Slab Sawing & Core Drilling Contractor (Spanish)

SCOPE: Concrete Slab Sawing and Core Drilling Contractor is a contractor qualified and certified to cut and/or core concrete, asphalt or any masonry combination thereof. Where cutting or coring is done on any structural member of any building or structure, it shall be under the direct supervision of the general or prime contractor and professional engineer who is responsible for that building or structure. All cutting or coring is to be approved by and coordinated between the general or prime contractor and the specialty or subcontractor as to the layout of the work to be performed. Such contractor shall have a qualifying agent with experience and skill gained by at least one (1) year's practical work in this field and who has passed a designated examination.

Number of Questions 75
Time allowed (hours) 3

Subject Area
- Plan Reading & Estimating 4
- Properties of Concrete 16
- Tools & Equipment 5
- Reinforcement 10
- Types of Concrete Construction 20
- Rigging Equipment & Practices 6
- Safety 7
- Building and Municipal Codes 7

References
Demolition

A Demolition Contractor is a contractor qualified and certified to demolish, wreck or disassemble buildings or other structures or parts thereof and remove the debris there from in such a manner that adjoining structures and properties and parts thereof and workmen and other persons may be kept safe.

Number of Questions 75
Time allowed (hours) 3

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</table>

References

Demolition (Spanish)

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

Number of Questions 50
Time allowed (hours) 2

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

References

Drywall

A Drywall is qualified and certified to install gypsum drywall products to studs, joists and suspended ceiling channels and to fabricate and install metal accessories and all necessary trim in connection therewith including metal studs, runners, hangers, channels, drywall metal suspension accessories and prefabricated ceiling materials, provided that any plaster work or trowelled material, application of block or wood partitions shall not be a part of the scope of such work.

Number of Questions: 75
Time allowed (hours): 3

Subject Area

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<td>Steel Framing</td>
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References

Drywall (Spanish)

A Drywall is qualified and certified to install gypsum drywall products to studs, joists and suspended ceiling channels and to fabricate and install metal accessories and all necessary trim in connection therewith including metal studs, runners, hangers, channels, drywall metal suspension accessories and prefabricated ceiling materials, provided that any plaster work or trowelled material, application of block or wood partitions shall not be a part of the scope of such work.

Number of Questions 75
Time allowed (hours) 3

Subject Area  # Quest.
Plan Reading & Estimating 7
Construction Materials & Methods 10
Thermal & Moisture Protection 5
Drywall Installation 12
Drywall Finishing 12
Steel Framing 12
Exterior Cladding 7
Interior Specialties & Finishes 5
Safety 5

References

Fence

A Fence Contractor is a contractor qualified and certified to fabricate, assemble, erect and install fences of masonry, wire, concrete, wood and other fence materials, in such manner that an acceptable fence can be erected complying with applicable regulations including zoning regulations.

Number of Questions 75
Time allowed (hours) 3

Subject Area # Quest.
Plan Reading & Estimating 7
Layout & General Math 11
Wood Fencing 15
Masonry Fencing 14
Metal & Chain Link Fencing 12
Safety 12
Hurricane zone Fencing 4

References

Fence (Spanish)

A Fence Contractor is a contractor qualified and certified to fabricate, assemble, erect and install fences of masonry, wire, concrete, wood and other fence materials, in such manner that an acceptable fence can be erected complying with applicable regulations including zoning regulations.

Number of Questions 75
Time allowed (hours) 3

Subject Area # Quest.
Plan Reading & Estimating 7
Layout & General Math 11
Wood Fencing 15
Masonry Fencing 14
Metal & Chain Link Fencing 12
Safety 12
Hurricane zone Fencing 4

References

General Contractor

General Contractor is a contractor whose services are unlimited as to the type of work, height, area or complexity of construction, and has a qualifying agent with the experience, knowledge and skill gained by not less than four (4) years' experience for a State of Florida certified or registered general contractor with at least one (1) year as either a superintendent or foreman or four (4) years' experience as a State of Florida certified or registered building contractor or sub-general contractor or has an accredited college-level education in a construction-related field equivalent thereto, or any combination thereof, with at least one year of proven experience as a superintendent or foreman and who has satisfactorily passed a general contractors’ examination. A general contractor may do, contract for, and take out permits for the work of any specialty building contractor subject to the limitations contained herein.

Number of Questions 75
Time allowed (hours) 3

Subject Area # Quest.
Plan Reading & Estimating 10
Sitework 5
Concrete 10
Masonry 5
Structural Steel 10
Carpentry & Metal Framing 10
Roofing 4
Associated Trades 2
Interior Finishes 5
Exterior Finishes 5
Safety 4
Hurricane Zone Building Contractor 5

References


▪ Masonry Level Three, 2014. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336.


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General Contractor (Spanish)

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References

- **Carpentry Level One, Carpentry Fundamentals 2013**, 2013. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at http://nccer.pearsonconstructionbooks.com
- **Masonry Level Three**, 2014. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336.
Glass & Glazing

A Glass and Glazing is qualified and certified to fabricate, install and attach windows of any type, fixed or movable, and swinging or sliding glass doors to building walls or columns erected by others including installation of glass-holding or supporting mullions or horizontal bars which in turn are attached to building walls or columns erected by others, including the cutting and installation of glass, and shall also include metal accessories and prefabricated glass, metal or plastic curtain walls or panels. The scope of work shall include the caulking incidental to all such work and shall include the fabrication and installation of garage and industrial doors and shower and tub enclosure doors and metal fascias, store front awnings or canopies.

Number of Questions 75
Time allowed (hours) 3

Subject Area # Quest.
Plan Reading & Estimating 5
Glass & Glazing 18
Plastic & Glazing 4
Sealants 15
Curtain Walls 8
Structural Glazing Systems 5
Bath Enclosures & Mirrors 6
Safety 7
Hurricane Zone Glass and Glazing. 7

References

Glass & Glazing (Spanish)

A Glass and Glazing is qualified and certified to fabricate, install and attach windows of any type, fixed or movable, and swinging or sliding glass doors to building walls or columns erected by others including installation of glass-holding or supporting mullions or horizontal bars which in turn are attached to building walls or columns erected by others, including the cutting and installation of glass, and shall also include metal accessories and prefabricated glass, metal or plastic curtain walls or panels. The scope of work shall include the caulking incidental to all such work and shall include the fabrication and installation of garage and industrial doors and shower and tub enclosure doors and metal fascias, store front awnings or canopies.

Number of Questions 74
Time allowed (hours) 3

Subject Area # Quest.
Plan Reading & Estimating 5
Glass & Glazing 18
Plastic & Glazing 4
Sealants 15
Curtain Walls 7
Structural Glazing Systems 5
Bath Enclosures & Mirrors 6
Safety 7
Hurricane Zone Glass and Glazing. 7

References

Journeyman Air Conditioning

A Journeyman Air Conditioning may only work in the employ of an Air Conditioning Contractor (Unlimited) holding a certificate of competency to install, repair, alter, add to or change any system of air conditioning, heating and ventilating, unlimited in horsepower or tons, including any or all duct systems necessary to make complete an air conditioning system and including the 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 disposal system; provided that boilers or unfired pressure vessels shall not be a part of the scope of work.

Number of Questions 75
Time allowed (hours) 3

Subject Area # Quest.
General Knowledge 20
Piping 8
Systems & Sizing 20
Equipment 8
Maintenance 15
Plan Reading 4

References

Journeyman Air Conditioning (Spanish)

A Journeyman Air Conditioning may only work in the employ of an Air Conditioning Contractor (Unlimited) holding a certificate of competency to install, repair, alter, add to or change any system of air conditioning, heating and ventilating, unlimited in horsepower or tons, including any or all duct systems necessary to make complete an air conditioning system and including the 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 disposal system; provided that boilers or unfired pressure vessels shall not be a part of the scope of work.

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<td>15</td>
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<td>Plan Reading</td>
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</table>

References

Journeyman Burglar Alarm 2014

A Burglar Alarm Journeyman may only work in the employ of a Burglar Alarm Specialty Electrical Contractor holding a certificate of competency to install, repair, alter, add to or change any system electrically energized, in whole or in part, for the detection, prevention or control of burglary. The scope of these systems shall include conductors and raceways, radio frequency carriers, laser beams, light beams, sonic beams, and any other means of signal transmissions, as well as all apparatus pertaining to burglar alarm systems. A burglar alarm 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 switch within six (6) feet of the equipment to be energized.

Number of Questions 75
Time allowed (hours) 3

Subject Area # Quest.
General Electrical Knowledge 9
Intrusion Detection 20
Acoustical Installation 24
Notification Appliances & Signaling Circuits 16
Power Supplies 4
Supervisory Stations 2

References

Journeyman Burglar Alarm 2014 (Spanish)

A Burglar Alarm Journeyman may only work in the employ of a Burglar Alarm Specialty Electrical Contractor holding a certificate of competency to install, repair, alter, add to or change any system electrically energized, in whole or in part, for the detection, prevention or control of burglary. The scope of these systems shall include conductors and raceways, radio frequency carriers, laser beams, light beams, sonic beams, and any other means of signal transmissions, as well as all apparatus pertaining to burglar alarm systems. A burglar alarm 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 switch within six (6) feet of the equipment to be energized.

Number of Questions 73
Time allowed (hours) 3

Subject Area
- General Electrical Knowledge 9
- Intrusion Detection 20
- Acoustical Installation 22
- Notification Appliances & Signaling Circuits 16
- Power Supplies 4
- Supervisory Stations 2

References
Journeyman Electrician (Spanish) 2014

A Journeyman Electrician may only work in the employ of an Electrical Contractor holding a certificate of competency in the field; 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 including the electrical installations and systems within plants and substations, all in such manner as to comply with all plans, specifications, codes, laws and regulations applicable and his scope of work shall include that of a room air-conditioning contractor, installation only.

Number of Questions 75
Time allowed (hours) 3

Subject Area  # Quest.
General Electrical Theory & Principles 10
Plan Reading 4
Wiring & Protection 14
Wiring Methods & Materials 25
Motors & Controls 4
Equipment for General Use 6
Special Occupancies 2
Special Equipment 3
Special Conditions 3
Communication Systems 4

References
Journeyman Electrician 2014

A Journeyman Electrician may only work in the employ of an Electrical Contractor holding a certificate of competency in the field; 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 including the electrical installations and systems within plants and substations, all in such manner as to comply with all plans, specifications, codes, laws and regulations applicable and his scope of work shall include that of a room air-conditioning contractor, installation only.

Number of Questions 75
Time allowed (hours) 3

Subject Area # Quest.
General Electrical Theory & Principles 15
Plan Reading 5
Wiring & Protection 14
Wiring Methods & Materials 18
Motors & Controls 5
Equipment for General Use 6
Special Occupancies 2
Special Equipment 3
Special Conditions 2
Communication Systems 5

References


Journeyman Fire Alarm 2014

A Fire Alarm Journeyman may only work in the employ of a Fire Alarm Contractor holding a certificate of competency to install, repair, alter, add to or change any system, electrically energized, in whole or in part, for the detection, prevention or control of fire, noxious gases, liquids or atomic radiation. The scope of these systems shall include conductors and raceways, radio frequency carriers, laser beams, light beams, sonic beams, and any other means of signal transmissions as well as all apparatus pertaining to fire alarm systems. A fire alarm 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 switch within six (6) feet of the equipment to be energized.

Number of Questions: 75
Time allowed (hours): 3

Subject Area

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<th># Quest.</th>
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<td>Installation Requirements Electrical</td>
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<td>Notification Appliances &amp; Signaling Circuits</td>
<td>15</td>
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<td>Systems Testing</td>
<td>11</td>
</tr>
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<td></td>
<td>Supervisory Stations</td>
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</tr>
</tbody>
</table>

References

Journeyman Fire Sprinkler

Journeyman Fire Sprinkler: 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 are 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 64
Time allowed (hours) 3

Subject Area
Code & General Knowledge 8
Plan Reading 6
Wet Fire Sprinkler Systems 14
Dry-Pipe Sprinkler Systems 13
Water Supply, Storage & Distribution 7
Materials & Methods 12
Underground Pipe, Hydrants & Stand Pipe Systems 3
Safety 0
Hangers & Supports 1

References

- **Sprinkler Fitting Level 1 2013.** 2013. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336.
Journeyman Gasfitter

Tests a candidate's knowledge of the installation, maintenance, repair, alteration, and extension of gas piping, gas mains, lines, laterals, tanks, appliances, and related appurtenances.

Number of Questions 75
Time allowed (hours) 3

Subject Area # Quest.
General Knowledge 12
Isometrics & Plan Reading 8
LP gas 9
Pipefitting Math 8
Safety 6
Sizing and Design 8
System installation 18
Venting 6

References

Journeyman General Mechanical

A Journeyman General Mechanical may only work in the employ of an General Mechanical Contractor holding a certificate of competency; to install, maintain, repair, alter or extend air conditioning, refrigeration, heating, ventilating, boiler and unfired pressure vessel systems, and all appurtenances, apparatus or equipment used in connection therewith; also, piping, duct work, insulation of pipes, vessels and ducts, pressure and process piping, installation of chilled water lines and related work incidental thereto, pneumatic control piping, gasoline tank and pump installations, piping for gasoline tank and pump installations, fire sprinkler systems and standpipes, air piping, vacuum line piping, oxygen lines, nitrous oxide piping, ink and chemical lines, fuel transmission lines, mechanical sections of sewage disposal and water treatment plants and installing 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 as to comply with all plans, specifications, codes, laws and regulations applicable; including any excavation work incidental thereto, such as but not limited to liquefied petroleum or natural gas fuel lines within buildings, potable water lines, or connections thereto, sanitary sewer lines, swimming pool piping and filters and electrical work; also including the work of a specialty mechanical contractor, except for elevator and transporting assembly installations.

Number of Questions 75
Time allowed (hours) 3

Subject Area # Quest.
General Knowledge 12
Piping 9
Equipment 14
Maintenance 13
Plan Reading 7
Systems & Sizing 20

References

Journeyman General Mechanical (Spanish)

A Journeyman General Mechanical may only work in the employ of an General Mechanical Contractor holding a certificate of competency; to install, maintain, repair, alter or extend air conditioning, refrigeration, heating, ventilating, boiler and unfired pressure vessel systems, and all appurtenances, apparatus or equipment used in connection therewith; also, piping, duct work, insulation of pipes, vessels and ducts, pressure and process piping, installation of chilled water lines and related work incidental thereto, pneumatic control piping, gasoline tank and pump installations, piping for gasoline tank and pump installations, fire sprinkler systems and standpipes, air piping, vacuum line piping, oxygen lines, nitrous oxide piping, ink and chemical lines, fuel transmission lines, mechanical sections of sewage disposal and water treatment plants and installing a condensate drain from an air conditioning unit to an existing safe waste or other approved disposal other than a direct connect

Number of Questions 75
Time allowed (hours) 3

Subject Area # Quest.
General Knowledge 12
Piping 9
Equipment 14
Maintenance 13
Plan Reading 7
Systems & Sizing 20

References

**Journeyman Heating**

A Journeyman Heating may only work in the employ of a Heating Contractor holding a certificate of competency to install, maintain, repair, alter, add to or change systems of heating, whether by water, steam or hot air furnaces and all appurtenances and duct work used in conjunction therewith.

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<td>Maintenance</td>
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</table>

**References**

Journeyman Insulation

A Journeyman Insulation may only work in the employ of an Insulation Contractor holding a certificate of competency to install, maintain, repair, alter or extend any insulation primarily installed to prevent loss or gain of heat from internal or external sources in pipes, vessels, ducts or in built-up refrigerated boxes or rooms, and such installations to include any protective coating thereof involved with insulation.

Number of Questions 75
Time allowed (hours) 3

Subject Area # Quest.
Code Compliance 9
Insulation 51
Safety 15

References

Journeyman Plumber

A Journeyman Plumber may only work in the employ of a Plumbing Contractor holding a certificate of competency to install, maintain, repair, alter or extend plumbing, septic tanks, drainage and supply wells, swimming pool and piping or solar heating systems and all appurtenances, apparatus or equipment used in connection therewith, including boilers and pressure and process piping and including the installation of water, gas, storm and sanitary sewer lines, and for the mechanical installation of gas, water and sewage plants and substations. The scope shall also include the installation, maintenance, repair, alteration or extension of air piping, vacuum line piping, oxygen line piping, nitrous oxide piping, fire line standpipes and fire sprinklers to the extent allowed by law, up to five (5) sprinkler heads out of potable water lines, ink and chemical lines, gasoline piping and tank and pump installation (excluding bulk storage plants) and pneumatic control piping systems. The scope of work does not include the installation of chilled water lines or related work incidental thereto.

Number of Questions: 75
Time allowed (hours): 3

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<th>Subject Area</th>
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<td>Hurricane zone items for Plumbing</td>
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References

Journeyman Plumber (Spanish)

A Journeyman Plumber may only work in the employ of a Plumbing Contractor holding a certificate of competency to install, maintain, repair, alter or extend plumbing, septic tanks, drainage and supply wells, swimming pool and piping or solar heating systems and all appurtenances, apparatus or equipment used in connection therewith, including boilers and pressure and process piping and including the installation of water, gas, storm and sanitary sewer lines, and for the mechanical installation of gas, water and sewage plants and substations. The scope shall also include the installation, maintenance, repair, alteration or extension of air piping, vacuum line piping, oxygen line piping, nitrous oxide piping, fire line standpipes and fire sprinklers to the extent allowed by law, up to five (5) sprinkler heads out of potable water lines, ink and chemical lines, gasoline piping and tank and pump installation (excepting bulk storage plants) and pneumatic control piping systems.

Number of Questions 74
Time allowed (hours) 3

Subject Area # Quest.
Drain, Waste & Vent Systems 10
Fixtures & Fittings 5
General Knowledge 8
Isometrics & Plan Reading 9
Plumbing Math 4
Storm & Roof Drainage 8
Water Heaters 5
Water Supply and Distribution 11
Safety 7
Fuel Gas Systems 4
High wind zone items for Plumbing 3

References

Journeyman Pressure & Process Piping

A Pressure and Process Piping Journeyman may only work in the employ of a Pressure and Process Piping Contractor holding a certificate of competency to install, maintain, repair, alter or extend any systems of piping, tubing, vessels, containers, pumps, apparatus, and appurtenances, in connection with such pressure piping used for circulation, transporting, holding or processing of any gas, vapor, fluid, liquid, semi-liquid or any combination thereof; provided, however that boilers, boiler piping as defined by the Boiler and Pressure Vessel Code (1965) of the American Society of Mechanical Engineers, piping used to convey potable water, sanitary sewage, liquefied petroleum, manufactured or natural gas or refrigeration, air conditioning, and comfort heating piping shall NOT be a part of the scope of such work.

Number of Questions 75
Time allowed (hours) 3

**Subject Area**

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**References**

Journeyman Pressure & Process Piping (Spanish)

A Pressure and Process Piping Journeyman may only work in the employ of a Pressure and Process Piping Contractor holding a certificate of competency to install, maintain, repair, alter or extend any systems of piping, tubing, vessels, containers, pumps, apparatus, and appurtenances, in connection with such pressure piping used for circulation, transporting, holding or processing of any gas, vapor, fluid, liquid, semi-liquid or any combination thereof; provided, however that boilers, boiler piping as defined by the Boiler and Pressure Vessel Code (1965) of the American Society of Mechanical Engineers, piping used to convey potable water, sanitary sewage, liquefied petroleum, manufactured or natural gas or refrigeration, air conditioning, and comfort heating piping shall NOT be a part of the scope of such work.

Number of Questions 75
Time allowed (hours) 3

Subject Area # Quest.
Code Compliance 14
Controls 6
Piping 37
Maintenance and Service 6
Safety 12

References

Journeyman Refrigeration

A Journeyman Refrigeration may only work in the employ of a Refrigeration Contractor (Unlimited) holding a certificate of competency to install, maintain, repair or alter any system of refrigeration unlimited to tons or horsepower, provided, however, that such refrigeration is intended to be used for the purpose of food and product preservation and/or processing and is not to be used for comfort systems; and further provided that this scope of work does not include ammonia refrigeration systems.

Number of Questions 75
Time allowed (hours) 3

Subject Area # Quest.
General Knowledge 22
Piping 25
Maintenance 5
Plan Reading 3
Systems & Sizing 20

References

Journeyman Room Air Conditioning

Journeyman Room Air Conditioning: 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 75
Time allowed (hours) 3

Subject Area # Quest.
General Knowledge 12
Maintenance and Service 14
Control Circuits 13
Carpentry 9
Masonry 9
Insulation 7
Safety 11

References

Journeyman Sheet Metal

Tests a candidate’s knowledge of sheet metal fabrication, intended for the installation, replacement, repair, alteration, and extension of ferrous & Non-ferrous ducting in ventilation and exhaust systems.

Number of Questions 75
Time allowed (hours) 3

Subject Area # Quest.
Plan Reading, Estimating & Math 10
Code & General Knowledge 10
Layout & Fabrication 12
Installation 12
Air Properties & Distribution 12
Air Distribution Accessories 7
Architectural Sheet Metal 7
Safety 5

References

Journeyman Sign Electrician 2014

An Journeyman Sign Electrician may only work in the employ of a Electrical Sign Contractor holding a certificate of competency to install, repair, alter, add to or change any electrical wires, apparatus, raceways, conduit or any part thereof, on electrical signs. Such contractor may connect to an existing sign circuit, beyond the last overcurrent device, and may contract for and take out building permits for the erection of signs.

Number of Questions 75
Time allowed (hours) 3

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References

Journeyman Sign Electrician 2014 (Spanish)

An Journeyman Sign Electrician may only work in the employ of a Electrical Sign Contractor holding a certificate of competency to install, repair, alter, add to or change any electrical wires, apparatus, raceways, conduit or any part thereof, on electrical signs. Such contractor may connect to an existing sign circuit, beyond the last overcurrent device, and may contract for and take out building permits for the erection of signs.

Number of Questions 75  
Time allowed (hours) 3

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<tr>
<td>Wiring Methods &amp; Materials</td>
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</table>

References

Journeyman Warm Air Heating

A Warm Air Heating Journeyman may only work in the employ of a Warm Air Heating Contractor holding a certificate of competency to install, maintain, repair or alter a system of warm air furnace heating and all appliances and appurtenances in connection therewith, including duct work, vents and flue connections.

<table>
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<td>General Knowledge</td>
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<td>Maintenance</td>
<td>15</td>
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<tr>
<td>Systems &amp; Sizing</td>
<td>16</td>
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</table>

Number of Questions: 75
Time allowed (hours): 3

References

Lathing & Plastering

A Lathing and Plastering Contractor is a contractor qualified and certified to apply and affix wood, gypsum or metal lath or any other product prepared or manufactured, including the placing of metal studs and runners to which lath is to be applied, to provide key or suction bases for the support of plaster coatings, to provide hangers, channels and other mechanical suspension work for the support of lath or acoustical tile or other prefabricated ceiling materials, including the channel iron work for the support of metal or other fire resistive lath on walls, ceilings or soffits, or for solid plaster partitions; and to coat surfaces with a mixture of sand or other aggregate, gypsum, plaster, Portland cement or quick lime and water or any combination of such materials as to create a permanent surface coating and which coatings are usually applied with a plasterer's trowel or by pneumatic pressure on any surface which offers a mechanical key for the support of such coatings or to which the coating will adhere by suction. The scope of work shall not include the erection of wood stud or masonry walls. Such contractor may perform the work of a drywall contractor.

Number of Questions 75
Time allowed (hours) 3

Subject Area # Quest.
Plan Reading & Estimating 5
Framing 16
Lathing 16
Materials 13
Application & Finishing 13
Safety 12

References


Lathing & Plastering (Spanish)

A Lathing and Plastering Contractor is a contractor qualified and certified to apply and affix wood, gypsum or metal lath or any other product prepared or manufactured, including the placing of metal studs and runners to which lath is to be applied, to provide key or suction bases for the support of plaster coatings, to provide hangers, channels and other mechanical suspension work for the support of lath or acoustical tile or other prefabricated ceiling materials, including the channel iron work for the support of metal or other fire resistive lath on walls, ceilings or soffits, or for solid plaster partitions; and to coat surfaces with a mixture of sand or other aggregate, gypsum, plaster, Portland cement or quick lime and water or any combination of such materials as to create a permanent surface coating and which coatings are usually applied with a plasterer’s trowel or by pneumatic pressure on any surface which offers a mechanical key for the support of such coatings or to which the coating will adhere by suction.

The scope of work shall not include the erection of wood stud or masonry walls. Such contractor may perform the work of a drywall contractor.

Number of Questions 75
Time allowed (hours) 3

Subject Area # Quest.
Plan Reading & Estimating 5
Framing 16
Lathing 16
Materials 13
Application & Finishing 13
Safety 12

References


Maintenance Electrician (Spanish) 2014

A Maintenance Electrician is a person qualified and certified by examination to maintain electrical installations. A maintenance electrician can perform or supervise the work of other personnel under a premise permit providing that such work shall be confined to the repair of existing branch circuits, fixtures, apparatus or equipment connected thereto, and shall include the relocation of existing branch circuits and the switching and de-energizing of existing facilities for safety purposes, contained and used upon the premises or building, owned, occupied or otherwise controlled by the person, firm or corporation by whom the maintenance electrician is regularly employed. The maintenance electrician’s work shall not include the installation, alteration, or replacement of service equipment or any feeder to any center or centers of service equipment.

Number of Questions 75
Time allowed (hours) 3

Subject Area | # Quest.
-------------|----------
General Electrical Knowledge | 22
Wiring & Protection | 14
Wiring Methods & Materials | 14
Servicing Applications | 18
Safety | 7

References


Maintenance Electrician 2014

A Maintenance Electrician is a person qualified and certified by examination to maintain electrical installations. A maintenance electrician can perform or supervise the work of other personnel under a premise permit providing that such work shall be confined to the repair of existing branch circuits, fixtures, apparatus or equipment connected thereto, and shall include the relocation of existing branch circuits and the switching and de-energizing of existing facilities for safety purposes, contained and used upon the premises or building, owned, occupied or otherwise controlled by the person, firm or corporation by whom the maintenance electrician is regularly employed. The maintenance electrician’s work shall not include the installation, alteration, or replacement of service equipment or any feeder to any center or centers of service equipment.

Number of Questions 75
Time allowed (hours) 3

Subject Area # Quest.
General Electrical Knowledge 22
Wiring & Protection 14
Wiring Methods & Materials 14
Servicing Applications 18
Safety 7

References


▪ **Trade Knowledge**, Prov, 13614 Progress Blvd., Alachua, Fl 32615. This reference is not a book for purchase. This reference represents the general knowledge that a candidate gains through experience in their trade.
Master AC (Limited)

A Master Air Conditioning (Limited) is a specialty mechanical contractor qualified and certified to install, repair, alter, or extend any system of air conditioning and warm air heating and ventilation in connection therewith, of a size not exceeding fifteen (15) tons in any type of building providing the total conditioning load in any common area does not exceed fifteen (15) tons, including any or all duct systems necessary to make complete an air conditioning system, and including the installation of a condensate drain from such an air conditioning unit to an existing safe waste or other approved disposal other than a direct connection to a sanitary disposal system; provided that boiler and unfired pressure vessels shall not be part of the scope of work.

Number of Questions 75
Time allowed (hours) 3

Subject Area # Quest.
General Knowledge 12
Piping 14
Systems & Sizing 25
Equipment 12
Maintenance 8
Plan Reading 4

References


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Master AC (Limited) (Spanish)

A Master Air Conditioning (Limited) is a specialty mechanical contractor qualified and certified to install, repair, alter, or extend any system of air conditioning and warm air heating and ventilation in connection therewith, of a size not exceeding fifteen (15) tons in any type of building providing the total conditioning load in any common area does not exceed fifteen (15) tons, including any or all duct systems necessary to make complete an air conditioning system, and including the installation of a condensate drain from such an air conditioning unit to an existing safe waste or other approved disposal other than a direct connection to a sanitary disposal system; provided that boiler and unfired pressure vessels shall not be part of the scope of work.

Number of Questions 75
Time allowed (hours) 3

Subject Area # Quest.
General Knowledge 12
Piping 14
Systems & Sizing 25
Equipment 12
Maintenance 8
Plan Reading 4

References
Master AC (Unlimited)

A Master Air Conditioning (Unlimited) is a specialty mechanical contractor qualified and certified to install, repair, alter, add to or change any system of air conditioning, heating and ventilating, unlimited in horsepower or tons, including any or all duct systems necessary to make complete an air conditioning system and including the 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 disposal system; provided that boilers or unfired pressure vessels shall not be a part of the scope of work.

Number of Questions: 75
Time allowed (hours): 3

Subject Area
- Piping: 14
- Equipment: 10
- Maintenance: 10
- Plan Reading: 6
- Systems & Sizing: 25
- General Knowledge: 10

References

Master AC (Unlimited) (Spanish)

A Master Air Conditioning (Unlimited) is a specialty mechanical contractor qualified and certified to install, repair, alter, add to or change any system of air conditioning, heating and ventilating, unlimited in horsepower or tons, including any or all duct systems necessary to make complete an air conditioning system and including the 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 disposal system; provided that boilers or unfired pressure vessels shall not be a part of the scope of work.

Number of Questions 75
Time allowed (hours) 3

Subject Area # Quest.
Piping 14
Equipment 10
Maintenance 10
Plan Reading 6
Systems & Sizing 25
General Knowledge 10

- References
Master Ammonia Refrigeration

An Ammonia Refrigeration Contractor is a specialty mechanical contractor, qualified and certified to install, maintain, repair, alter or extend any system of refrigeration using ammonia as a refrigerant including all appliances and appurtenances thereto.

Number of Questions: 75
Time allowed (hours): 3

Subject Area
- General Knowledge: 19
- Piping: 37
- Maintenance: 4
- Plan Reading: 3
- Systems & Sizing: 12

References
Master Burglar Alarm 2014

Burglar Alarm Electrical is a contractor qualified to install, repair, alter, add to or change any system electrically energized, in whole or in part, for the detection, prevention or control of burglary. The scope of these systems shall include conductors and raceways, radio frequency carriers, laser beams, light beams, sonic beams, and any other means of signal transmissions, as well as all apparatus pertaining to burglar alarm systems. A burglar alarm 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 switch within six (6) feet of the equipment to be energized. Such contractor shall have as a qualifying agent a burglar alarm master. Also burglar alarm journeymen are required in this trade.

Number of Questions 75
Time allowed (hours) 3

Subject Area # Quest.
General Electrical Knowledge 10
Acoustical Installation 10
Power Supplies 5
Intrusion Detection 36
Notification Appliances & Signaling Circuits 10
Supervisory Stations 4

References

Master Burglar Alarm 2014 (Spanish)

Burglar Alarm Electrical is a contractor qualified to install, repair, alter, add to or change any system electrically energized, in whole or in part, for the detection, prevention or control of burglary. The scope of these systems shall include conductors and raceways, radio frequency carriers, laser beams, light beams, sonic beams, and any other means of signal transmissions, as well as all apparatus pertaining to burglar alarm systems. A burglar alarm 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 switch within six (6) feet of the equipment to be energized. Such contractor shall have as a qualifying agent a burglar alarm master. Also burglar alarm journeymen are required in this trade.

Number of Questions 75
Time allowed (hours) 3

Subject Area
General Electrical Knowledge 10
Acoustical Installation 10
Power Supplies 5
Intrusion Detection 36
Notification Appliances & Signaling Circuits 10
Supervisory Stations 4

References
Master Electric Utility

A Utility Electrical Contractor is qualified and certified to install, repair, alter, add to or change any electrical wires, apparatus, raceways, conduit, or any part thereof, on underground or overhead electric utilities transmission and distribution lines or distribution systems including such distribution work within power plants and sub-stations. The scope of work in this classification shall be limited to the work directly involved in performing contract work for the construction of electric utility distribution systems and shall include any excavation and paving work incidental thereto.

Number of Questions: 75
Time allowed (hours): 3

Subject Area

- Plan Reading & Estimating: 6
- Earthwork: 14
- Paving: 3
- Underground Pipe Assembly & Installation: 10
- Concrete Forming, Reinforcement & Placing: 14
- Electrical: 16
- Splicing and Terminations: 5
- Safety: 7

References

Master Electrician (Spanish) 2014

An Electrical Contractor is a contractor whose principal contracting business consists of the execution of contracts requiring the experience, financial means, 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 including the electrical installations and systems within plants and substations, all in such manner as to comply with all plans, specifications, codes, laws and regulations applicable and his scope of work shall include that of a room air-conditioning contractor, installation only. The scope of such contractor's work shall apply to private and public property and shall include any excavation and paving work incidental thereto, and shall include the work of all specialty electrical contractors. Such contractors shall subcontract with a qualified contract.

Number of Questions 75
Time allowed (hours) 3

Subject Area # Quest.
General Electrical Knowledge 10
Communication Systems 5
Equipment for General Use 4
Motors & Controls 4
Plan Reading 6
Special Conditions 6
Special Equipment 6
Special Occupancies 6
Wiring & Protection 10
Wiring Methods & Materials 18

References

Master Electrician 2011

A Electrical Contractor is a contractor whose principal contracting business consists of the execution of contracts requiring the experience, financial means, 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 including the electrical installations and systems within plants and substations, all in such manner as to comply with all plans, specifications, codes, laws and regulations applicable and his scope of work shall include that of a room air-conditioning contractor, installation only. The scope of such contractor’s work shall apply to private and public property and shall include any excavation and paving work incidental thereto, and shall include the work of all specialty electrical contractors. Such contractors shall subcontract with a qualified contractor in the field concerned, all other work incidental to the work, but which is specified herein as being the work of a trade other than that of an electrical contractor.

Number of Questions 75
Time allowed (hours) 3

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</table>

References

Master Electrician 2014

An Electrical Contractor is a contractor whose principal contracting business consists of the execution of contracts requiring the experience, financial means, 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 including the electrical installations and systems within plants and substations, all in such manner as to comply with all plans, specifications, codes, laws and regulations applicable and his scope of work shall include that of a room air-conditioning contractor, installation only. The scope of such contractor's work shall apply to private and public property and shall include any excavation and paving work incidental thereto, and shall include the work of all specialty electrical contractors. Such contractors shall subcontract with a qualified contractor in the field concerned, all other work incidental to the work, but which is specified herein as being the work of a trade other than that of an electrical contractor.

Number of Questions 75
Time allowed (hours) 3

Subject Area # Quest.
General Electrical Knowledge 10
Communication Systems 5
Equipment for General Use 4
Motors & Controls 4
Plan Reading 6
Special Conditions 6
Special Equipment 6
Special Occupancies 6
Wiring & Protection 10
Wiring Methods & Materials 18

References
Master Fire Alarm 2014

A Master Fire Alarm is a specialty electrical contractor qualified and certified to install, repair, alter, add to, or change any system, electrically energized, in whole or in part, for the detection, prevention or control of fire, noxious gases, liquids or atomic radiation. The scope of these systems shall include conductors and raceways, radio frequency carriers, laser beams, light beams, sonic beams, and any other means of signal transmissions as well as all apparatus pertaining to fire alarm systems. A fire alarm 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 switch within six (6) feet of the equipment to be energized. Such contractor shall have as a qualifying agent a fire alarm master. Also fire alarm journeymen are required in this trade.

Number of Questions: 75
Time allowed (hours): 3

Subject Area

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<th>Notification Appliances &amp; Signaling Circuits</th>
<th>Systems Testing</th>
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References

**Master Fire Alarm 2014 (Spanish)**

A Master Fire Alarm is a specialty electrical contractor qualified and certified to install, repair, alter, add to, or change any system, electrically energized, in whole or in part, for the detection, prevention or control of fire, noxious gases, liquids or atomic radiation. The scope of these systems shall include conductors and raceways, radio frequency carriers, laser beams, light beams, sonic beams, and any other means of signal transmissions as well as all apparatus pertaining to fire alarm systems. A fire alarm 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 switch within six (6) feet of the equipment to be energized. Such contractor shall have as a qualifying agent a fire alarm master. Also fire alarm journeymen are required in this trade.

**Number of Questions** 75  
**Time allowed (hours)** 3

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**References**


Master Gasfitter

Tests a candidate's knowledge of the design, installation, maintenance, repair, alteration, and extension of gas piping, gas mains, lines, laterals, tanks, appliances, and related appurtenances.

Number of Questions  75
Time allowed (hours)  3

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<td>Sizing and Design</td>
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References

Master Gasfitter (Spanish)

Tests a candidate’s knowledge of the design, installation, maintenance, repair, alteration, and extension of gas piping, gas mains, lines, laterals, tanks, appliances, and related appurtenances.

Number of Questions  75
Time allowed (hours)  3

Subject Area       # Quest.
General Knowledge    10
Isometrics & Plan Reading  7
LP gas                8
Pipefitting Math      9
Safety                8
Sizing and Design     10
System installation   15
Venting               8

References

Master General Mechanical

A Master General Mechanical is a contractor whose contracting business consists of the execution of contracts requiring the experience, financial means, knowledge and skill to perform the following: install, maintain, repair, alter or extend air conditioning, refrigeration, heating, ventilating, boiler and unfired pressure vessel systems, and all appurtenances, apparatus or equipment used in connection therewith; also, piping, duct work, insulation of pipes, vessels and ducts, pressure and process piping, installation of chilled water lines and related work incidental thereto, pneumatic control piping, gasoline tank and pump installations, piping for gasoline tank and pump installations, fire sprinkler systems and standpipes, air piping, vacuum line piping, oxygen lines, nitrous oxide piping, ink and chemical lines, fuel transmission lines, mechanical sections of sewage disposal and water treatment plants and installing 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 as to comply with all plans, specifications, codes, laws and regulations applicable. Such contractor shall have as qualifying agent a general mechanical master. The scope of work of such contractor shall also include any excavation work incidental thereto, but shall not include any work specified in this chapter as being the work of any other trade or contractor, such as but not limited to liquefied petroleum or natural gas fuel lines within buildings, potable water lines, or connections thereto, sanitary sewer lines, swimming pool piping and filters and electrical work. The scope of the work of such a contractor shall also include the work of a specialty mechanical contractor, except for elevator and transporting assembly installations; and if there is work incidental to such contractor's authorized scope of work to be performed pursuant to contract for which such contractor does not hold a certificate of competency, such work shall be subcontracted to a qualified contractor in the trade concerned.

Number of Questions 75
Time allowed (hours) 3

Subject Area # Quest.
General Knowledge 12
Piping 12
Systems & Sizing 20
Equipment 12
Maintenance 13
Plan Reading 6

References


## Master Heating

A Master Heating is a specialty mechanical contractor, qualified and certified to install, maintain, repair, alter, add to or change systems of heating, whether by water, steam or hot air furnaces and all appurtenances and duct work used in conjunction therewith.

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### Subject Area

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### References

Master Insulation

An Master Insulation is a specialty mechanical contractor qualified and certified to install, maintain, repair, alter or extend any insulation primarily installed to prevent loss or gain of heat from internal or external sources in pipes, vessels, ducts or in built-up refrigerated boxes or rooms, and such installations to include any protective coating thereof involved with insulation.

Number of Questions 75
Time allowed (hours) 3

Subject Area # Quest.
Plan Reading & Estimating 8
Theory 6
Insulation Materials & Accessories 20
Insulation Installation 18
Systems Insulation 13
Safety 10

References

Master Insulation (Spanish)

Master Insulation is a specialty mechanical contractor qualified and certified to install, maintain, repair, alter or extend any insulation primarily installed to prevent loss or gain of heat from internal or external sources in pipes, vessels, ducts or in built-up refrigerated boxes or rooms, and such installations to include any protective coating thereof involved with insulation.

Number of Questions 75
Time allowed (hours) 3

Subject Area # Quest.
Insulation Installation 18
Insulation Materials & Accessories 20
Plan Reading & Estimating 8
Safety 10
Systems Insulation 13
Theory 6

References


**Master Lawn Sprinkler**

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

**Number of Questions**

75

**Time allowed (hours)**

3

**Subject Area**

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<th>Controls</th>
<th>Irrigation Installation</th>
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</tbody>
</table>

**References**

Master Lawn Sprinkler (Spanish)

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

Number of Questions 75
Time allowed (hours) 3

Subject Area # Quest.
Planning & Layout 6
Plan Reading & Estimating 6
Materials 12
Controls 10
Irrigation Installation 18
Cross Contamination & Backflow Prevention 9
Reclaimed Water 6
Safety 8

References

Master Low Voltage (Spanish) 2014

A Master Low Voltage Contractor is 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. The scope of the work of such a contractor shall not include the work of burglar alarm and fire alarm specialty electrical contractors.

Number of Questions 75
Time allowed (hours) 3

Subject Area

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<th># Quest.</th>
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References

Master Low Voltage 2014

A Master Low Voltage Contractor is 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.

The scope of the work of such a contractor shall not include the work of burglar alarm and fire alarm specialty electrical contractors.

Number of Questions 75
Time allowed (hours) 3

Subject Area # Quest.
General Electrical Knowledge 26
Wiring & Protection 4
Wiring Methods & Materials 16
Equipment for General Use 6
Special Occupancies 7
Special Equipment 4
Special Conditions 7
Communication Systems 5

References

Master Plumber

The scope of work of a Master Plumber shall include the knowledge and skill to install, maintain, repair, alter or extend plumbing, septic tanks, drainage and supply wells, swimming pool and piping or solar heating systems and all appurtenances, apparatus or equipment used in connection therewith, including boilers and pressure and process piping and including the installation of water, gas, storm and sanitary sewer lines, and for the mechanical installation of gas, water and sewage plants and substations. The scope shall also include the installation, maintenance, repair, alteration or extension of air piping, vacuum line piping, oxygen line piping, nitrous oxide piping, fire line standpipes and fire sprinklers to the extent allowed by law, up to five (5) sprinkler heads out of potable water lines, ink and chemical lines, gasoline piping and tank and pump installation (excepting bulk storage plants) and pneumatic control piping systems. The scope of work does not include the installation of chilled water lines or related work incidental thereto.

Number of Questions       75
Time allowed (hours)       3

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References

Master Plumber (Spanish)

The scope of work of a Master Plumber shall include the knowledge and skill to install, maintain, repair, alter or extend plumbing, septic tanks, drainage and supply wells, swimming pool and piping or solar heating systems and all appurtenances, apparatus or equipment used in connection therewith, including boilers and pressure and process piping and including the installation of water, gas, storm and sanitary sewer lines, and for the mechanical installation of gas, water and sewage plants and substations. The scope shall also include the installation, maintenance, repair, alteration or extension of air piping, vacuum line piping, oxygen line piping, nitrous oxide piping, fire line standpipes and fire sprinklers to the extent allowed by law, up to five (5) sprinkler heads out of potable water lines, ink and chemical lines, gasoline piping and tank and pump installation (excepting bulk storage plants) and pneumatic control piping systems. The scope of work does not include the installation

Number of Questions 74
Time allowed (hours) 3

Subject Area
- Drain, Waste & Vent Systems 8
- Fixtures & Fittings 8
- General Knowledge 8
- Isometrics & Plan Reading 8
- Plumbing Math 8
- Storm & Roof Drainage 5
- Water Heaters 8
- Water Supply and Distribution 10
- Safety 5
- Fuel Gas Systems 3
- High wind zone items for Plumbing 3

References
Master Refrigeration & Air Conditioning Contractor

A Refrigeration and Air Conditioning Contractor is a specialty mechanical contractor qualified and certified to install, repair alter, add to or change any system of refrigeration, air conditioning, heating and ventilating, unlimited in horsepower or tons, including any or all duct systems necessary to make complete a refrigeration or air conditioning system and including the 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 disposal system; provided, however, ammonia refrigeration, boilers or unfired vessels shall not be a part of the scope of such work.

Number of Questions 75
Time allowed (hours) 3

Subject Area
# Quest.
General Knowledge 12
Piping 10
Equipment 11
Maintenance 12
Plan Reading 10
Systems & Sizing 20

References

Master Refrigeration Limited

A Master Refrigeration (Limited) is a mechanical contractor, qualified and certified to install, maintain, repair or alter any system of refrigeration not exceeding five (5) horsepower, self-contained or with remote compressor, where such refrigeration system is for the purpose of food preservation and/or processing, other than human-comfort refrigeration systems. The scope of work of a Refrigeration Contractor (Limited) shall be limited to refrigeration systems using Group I refrigerants only.

Number of Questions 75
Time allowed (hours) 3

Subject Area # Quest.
General Knowledge 20
Piping 25
Maintenance 5
Plan Reading 5
Systems & Sizing 20

References

  International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478. www.iccsafe.org
  International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478. www.iccsafe.org
  International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478. www.iccsafe.org
Master Refrigeration Unlimited

A Master Refrigeration (Unlimited) is a mechanical contractor qualified and certified to install, maintain, repair or alter any system of refrigeration unlimited to tons or horsepower, provided, however, that such refrigeration is intended to be used for the purpose of food and product preservation and/or processing and is not to be used for comfort systems; and further provided that this scope of work does not include ammonia refrigeration systems.

Number of Questions 75
Time allowed (hours) 3

Subject Area # Quest.
General Knowledge 20
Piping 20
Systems & Sizing 22
Maintenance 6
Plan Reading 7

References

Master Sheet Metal

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.

Number of Questions          75
Time allowed (hours)          3

Subject Area                  # Quest.
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

## Master Sign Electrician 2014

Master Sign Electrician is qualified and certified to install, repair, alter, add to or change any electrical wires, apparatus, raceways, conduit or any part thereof, on electrical signs. Such contractor may connect to an existing sign circuit, beyond the last overcurrent device, and may contract for and take out building permits for the erection of signs.

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### Subject Area

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<td>Grounding &amp; Bonding</td>
<td>11</td>
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<td>Motors &amp; Controls</td>
<td>8</td>
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<td>Wiring Methods &amp; Materials</td>
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### References

Master Sign Electrician 2014 (Spanish)

Master Sign Electrician is qualified and certified to install, repair, alter, add to or change any electrical wires, apparatus, raceways, conduit or any part thereof, on electrical signs. Such contractor may connect to an existing sign circuit, beyond the last overcurrent device, and may contract for and take out building permits for the erection of signs.

Number of Questions 75
Time allowed (hours) 3

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References

Master Steam Generating Boiler & Boiler Piping

Number of Questions 75
Time allowed (hours) 3

Subject Area # Quest.
General Knowledge 15
Piping 12
Boiler Construction 12
Systems and Sizing 14
Maintenance and Repair 14
Plan Reading & Estimating 8

References

Master Swimming Pool Maintenance (Residential)

A Swimming Pool Maintenance (Limited) is contractor qualified and certified to do any or all of the following, including, but not limited to, maintaining and treating the water in existing swimming pools, both public and private, making minor repairs to existing pool masonry such as patching cracks in pool bottoms and walls, repainting or resurfacing the walls and bottoms of pools, performing preventive maintenance and replacing existing equipment and appurtenances thereof of swimming pools, such as pumps, valves, filters and chlorinators; provided, such a contractor may only replace existing equipment and appurtenances in private pools of single-family residences.

Number of Questions 75
Time allowed (hours) 3

Subject Area       # Quest.
Calculations       8
Circulation        10
Disinfection       13
Filtration         13
Management         7
Repairs            4
Safety             10
Testing            10

References

Master Swimming Pool Maintenance (Commercial)

A Master Swimming Pool Maintenance (Unlimited) is contractor qualified and certified to do any or all of the following, including, but not limited to, maintaining and treating the water in existing swimming pools, both public and private, making minor repairs to existing pool masonry such as patching cracks in pool bottoms and walls, repainting or resurfacing the walls and bottoms of pools, performing preventive maintenance and replacing existing equipment and appurtenances thereof of swimming pools, such as pumps, valves, filters and chlorinators.

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Subject Area # Quest.
Calculations 9
Circulation 10
Disinfection 10
Filtration 14
Management 7
Repairs 5
Safety 10
Testing 10

References

Master Swimming Pool Maintenance (Commercial) (Spanish)

A Master Swimming Pool Maintenance (Unlimited) is contractor qualified and certified to do any or all of the following, including, but not limited to, maintaining and treating the water in existing swimming pools, both public and private, making minor repairs to existing pool masonry such as patching cracks in pool bottoms and walls, repainting or resurfacing the walls and bottoms of pools, performing preventive maintenance and replacing existing equipment and appurtenances thereof of swimming pools, such as pumps, valves, filters and chlorinators.

Number of Questions 75
Time allowed (hours) 3

Subject Area # Quest.
Calculations 9
Circulation 10
Disinfection 10
Filtration 14
Management 7
Repairs 5
Safety 10
Testing 10

References

Master Swimming Pool Piping

Swimming Pool Piping Contractor is a contractor having the required financial means and having a qualifying agent as provided herein. Such qualifying agent shall have experience and skill gained by not less than one (1) year of experience, or its educational equivalent, or a combination of such experience and education, in installing swimming pool piping under the supervision of a plumbing contractor or a contractor making swimming pool piping installations. Such qualifying agent shall be qualified, examined, and certified to perform the functions within the scope of work of a swimming pool piping contractor as hereinafter provided. The scope of work of a swimming pool piping contractor shall permit such a contractor to install, maintain, repair, alter, or extend swimming pool piping systems including the pumps, filters, pool heaters and chlorinators incidental to swimming pools and involving the means of disposing of pool water. The scope of work in this classification shall not include direct connection to a sanitary sewer system, potable water line or electrical supply, or the installation of package pool heaters.

Number of Questions 75
Time allowed (hours) 3

Subject Area # Quest.
Plan Reading & Estimating 7
Site Preparation, Excavation and Backfilling 6
Pool Piping 22
Pool Equipment 18
Care and Operation 12
Safety 10

References


# Master Swimming Pool Piping (Spanish)

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</table>

References
Master Transporting Assembly Installer

A Transporting Assembly Installation Contractor is a specialty mechanical contractor qualified and certified to install, maintain, alter & extend any transporting assembly, as defined by the South Florida Building Code. Transporting assemblies shall man any permanent or semi-permanent device, manually or power-operated, other than elevators, dumbwaiters or escalators used for transporting material or persons in any horizontal, inclined or vertical direction, and such assemblies shall include but shall not be confined to the following: 1. Amusement devices used to convey persons as a form of amusement. 2. Inclined devices, with or without seats, but not considered as escalators. 3. Man hoists, stage & orchestra lifts, tiering & piling machines, skip hoists & wharf ramps. 4. Belt, bucket, scoop, roller or similarly inclined or vertical freight conveyors. 5. Hoists which are used for handling material during construction of buildings & structures.

Number of Questions 67
Time allowed (hours) 3

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<td>Belt, Bucket &amp; Scoop, Rollers</td>
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<td>Safety</td>
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</table>

References

Master Transporting Assembly Installer (Spanish)

A Transporting Assembly Installation Contractor is a specialty mechanical contractor qualified and certified to install, maintain, alter & extend any transportng assembly, as defined by the South Florida Building Code. Transporting assemblies shall man any permanent or semi-permanent device, manually or power-operated, other than elevators, dumbwaiters or escalators used for transporting material or persons in any horizontal, inclined or vertical direction, and such assemblies shall include but shall not be confined to the following: A. Amusement devices used to convey persons as a form of amusement. B. Inclined devices, with or without seats, but not considered as escalators. C. Man hoists, stage & orchestra lifts, tiering & piling machines, skip hoists & wharf ramps. 4. Belt, bucket, scoop, roller or similarly inclined or vertical freight conveyors. 5. Hoists which are used for handling material during construction of buildings & structures.

Number of Questions 57
Time allowed (hours) 3

Subject Area

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</table>

References

Master TV Antenna 2014

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

Number of Questions 75
Time allowed (hours) 3

Subject Area # Quest.
General Electrical Knowledge 15
Low Voltage, Signaling & Remote Control 8
Radio & Television Equipment 8
Community antenna television & radio distribution systems 12
Grounding & Bonding 24
Safety 8

References

Master TV Antenna 2014 (Spanish)

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

Number of Questions: 75
Time allowed (hours): 3

Subject Area:
- General Electrical Knowledge: 15
- Low Voltage, Signaling & Remote Control: 8
- Radio & Television Equipment: 8
- Community antenna television & radio distribution systems: 12
- Grounding & Bonding: 24
- Safety: 8

References:
Master Warm Air Heating

A Warm Air Heating Contractor is a specialty mechanical Contractor qualified and certified to install, maintain, repair or alter a system of warm air furnace heating and all appliances and appurtenances in connection therewith, including duct work, vents and flue connections.

Number of Questions 75
Time allowed (hours) 3

Subject Area # Quest.
General Knowledge 20
Piping 20
Equipment 5
Maintenance 10
Systems & Sizing 20

References

Mechanical Maintenance

A Mechanical Maintenance 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.

Number of Questions ........................................... 75
Time allowed (hours) ........................................... 3

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References

Mechanical Maintenance (Spanish)

A Mechanical Maintenance 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.

Number of Questions 75
Time allowed (hours) 3

Subject Area # Quest.
General Knowledge 20
Piping 7
Equipment 18
Maintenance 20
Plan Reading 3
Systems & Sizing 7

References

Metal Awning & Storm Shutter Contractor

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

Number of Questions: 75
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<td>Safety</td>
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</table>

References

- **Hurricane Shutter Designs.** APA - The Engineered Wood Association, 7011 S. 19th ST, Tacoma, WA 98466. Available at www.apawood.org Candidate’s printed versions, Form T450 is allowed if exam is open book.
Metal Awning & Storm Shutter Contractor (Spanish)

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

Number of Questions 75
Time allowed (hours) 3

Subject Area # Quest.
Plan Reading & Estimating 15
Concrete and Reinforcement 10
Metal Storm Panel Shutters 6
Wood Storm Shutters 5
Installation & Anchorage 25
Building and Municipal Codes 7
Safety 7

References

- **Hurricane Shutter Designs.** APA - The Engineered Wood Association, 7011 S. 19th ST, Tacoma, WA 98466. Available at www.apawood.org Candidate’s printed versions, Form T450 is allowed if exam is open book.
Metal Decking & Siding

A Metal Decking and Siding Contractor is a contractor qualified and certified to erect metal decking and siding or other material incidental thereto that may be used for enclosing buildings or other structures including welding, bolting or other attachments in connection therewith and including such minor field fabrication as may be necessary and also the installation of industrial doors and windows in connection therewith.

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Number of Questions: 75
Time allowed (hours): 3

References:

Metal Decking & Siding (Spanish)

A Metal Decking and Siding Contractor is a contractor qualified and certified to erect metal decking and siding or other material incidental thereto that may be used for enclosing buildings or other structures including welding, bolting or other attachments in connection therewith and including such minor field fabrication as may be necessary and also the installation of industrial doors and windows in connection therewith.

Number of Questions 75
Time allowed (hours) 3

Subject Area # Quest.
Plan Reading & Estimating 10
Metal Decking 17
Metal Siding 10
Welding & Cutting 8
Doors & Windows 4
Rigging Equipment & Practices 6
Safety 12
High Velocity Hurricane Zone Metal Decking & Siding 8

References

Miscellaneous Metals Contractor

A Miscellaneous Metals Contractor is qualified and certified to fabricate, apply, erect and install miscellaneous appurtenances, appendages, parts or equipment of metal, including other materials incidental thereto, in or on buildings or other structures and shall also include all work involving: metal awnings and storm shutters, canvas awnings, metal cabinets and store fixtures, screen enclosures and all work incidental thereto, metal partitions, flagpoles, ornamental metals including structural railings, and metal sunshades. The work of a miscellaneous metals contractor shall not include the work of a metal decking and siding contractor, reinforcing steel placing contractor, or structural steel contractor.

Number of Questions 75
Time allowed (hours) 3

Subject Area # Quest.
Building and Municipal Codes 6
Characteristics and Properties of Metals 13
Metal Cutting 15
Safety 5
Welding Practices 17
Weld Quality Control 7
Welding Symbols & Detail Drawings 12

References
### Miscellaneous Metals Contractor (Spanish)

A Miscellaneous Metals Contractor is qualified and certified to fabricate, apply, erect and install miscellaneous appurtenances, appendages, parts or equipment of metal, including other materials incidental thereto, in or on buildings or other structures and shall also include all work involving: metal awnings and storm shutters, canvas awnings, metal cabinets and store fixtures, screen enclosures and all work incidental thereto, metal partitions, flagpoles, ornamental metals including structural railings, and metal sunshades. The work of a miscellaneous metals contractor shall not include the work of a metal decking and siding contractor, reinforcing steel placing contractor, or structural steel contractor.

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#### References

Plumbing Maintenance

Plumbing Maintenance man is a person qualified and certified by examination to maintain plumbing installations. The work of the maintenance plumber shall be confined to maintenance repairs involving only the working parts of a faucet or valve, the clearance of stoppages, repairing of leaks and the replacement of defective faucets or valves contained and used upon the premises or building owned, occupied or otherwise controlled by the person, firm or corporation by whom the maintenance plumber is regularly employed. Maintenance plumbers' work shall not include the cutting into, connecting to or extension of potable water lines, or drain waste and vent systems. A certified master or journeyman plumber shall automatically qualify as a maintenance plumber.

Number of Questions
75

Time allowed (hours)
3

Subject Area

# Quest.
Servicing of Fixtures, Valves, and Faucets
14
Fixtures & Fittings
14
General Knowledge
12
Installing Fixtures, Valves, and Faucets
9
Introduction to Water Distribution Systems
9
Plumbing Drawings
5
Compressed Air
4
Types of Valves
3
Safety
5

References

Plumbing Maintenance (Spanish)

Plumbing Maintenance man is a person qualified and certified by examination to maintain plumbing installations. The work of the maintenance plumber shall be confined to maintenance repairs involving only the working parts of a faucet or valve, the clearance of stoppages, repairing of leaks and the replacement of defective faucets or valves contained and used upon the premises or building owned, occupied or otherwise controlled by the person, firm or corporation by whom the maintenance plumber is regularly employed. Maintenance plumbers’ work shall not include the cutting into, connecting to or extension of potable water lines, or drain waste and vent systems. A certified master or journeyman plumber shall automatically qualify as a maintenance plumber.

Number of Questions 75
Time allowed (hours) 3

Subject Area # Quest.
Servicing of Fixtures, Valves, and Faucets 14
Fixtures & Fittings 14
General Knowledge 12
Installing Fixtures, Valves, and Faucets 9
Introduction to Water Distribution Systems 9
Plumbing Drawings 5
Compressed Air 4
Types of Valves 3
Safety 5

References

Pneumatic Concreting & Pressure Grouting

Pneumatic Concreting and Pressure Grouting Contractor is a contractor qualified and certified to proportion and apply concrete to surfaces by pneumatic methods, chip loose concrete, sandblast and clean reinforcing, batch and proportion cement, sand and water, to erect forms and framework to which concrete is to be applied pneumatically and place miscellaneous reinforcing for repair of concrete and to proportion and place cement and intergrout by pneumatic pumping methods that under an agreed specifications subsurface load bearing capacities can be stabilized or previously settled structures raised or restored to plumb, grade or alignment.

Number of Questions 75
Time allowed (hours) 3

Subject Area # Quest.
Building and Municipal Codes 13
Foundation Grouting 6
Plan Reading & Estimating 10
Properties of Concrete & Grout 16
Safety 8
Shotcrete Construction 22

References

Prestressed, Precast Concrete Erection Contractor

Prestressed Precast Concrete Erection Contractor is a contractor qualified and certified to erect structural precast concrete units such as decks, beams, girders, walls, columns and stairs that are or may be used as structural members for buildings and structures, including welding and rigging in connection therewith and to erect precast concrete units for guard rails and decorative panels above the ground floor, including such minor field fabrication as may be necessary.

Number of Questions  
75

Time allowed (hours)  
3

Subject Area

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</tbody>
</table>

References

- **Erector’s Manual: Standards and guidelines for the erection of precast concrete products**, Precast/Prestressed Concrete Institute, 9626 Upper Lewisburg Salem Road, Brookville, OH 45309. Available at www pci.org/
Prestressed, Precast Concrete Erection Contractor (Spanish)

Prestressed Precast Concrete Erection Contractor is a contractor qualified and certified to erect structural precast concrete units such as decks, beams, girders, walls, columns and stairs that are or may be used as structural members for buildings and structures, including welding and rigging in connection therewith and to erect precast concrete units for guard rails and decorative panels above the ground floor, including such minor field fabrication as may be necessary.

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References

- **Erector’s Manual: Standards and guidelines for the erection of precast concrete products**, Precast/Prestressed Concrete Institute, 9626 Upper Lewisburg Salem Road, Brookville, OH 45309. Available at [www pci org/](http://www.pci.org/)
Reinforcing Steel Placing Contractor

Reinforcing Steel Placing Contractor is a contractor qualified and certified to fabricate, place, tie and weld steel reinforcing bars (rods) that are or may be used to reinforce concrete buildings or structures.

Number of Questions 75
Time allowed (hours) 3

Subject Area  # Quest.
Plan Reading & Estimating 12
Reinforcement Placement 16
Reinforcement Connections 16
Reinforcement Cutting & Bending 11
Rigging Equipment & Practices 8
Safety 11
Hurricane Zone Reinforcing Steel Placement 1

References

Residential Contractor

Residential contractor is a contractor whose services are limited to construction, remodeling, repair, or improvement of one-family, two-family, or three-family residences not exceeding two habitable stories above no more than one uninhabitable story and accessory use structures in connection therewith and has a qualifying agent with the experience, knowledge and skill gained by not less than four (4) years’ experience for a State of Florida certified or registered general, general building, building, sub-general, residential or sub-building contractor with at least one (1) year as either a superintendent or foreman or has an accredited college-level education in a construction-related field equivalent thereto, or any combination thereof, with at least one year of proven experience as a superintendent or foreman and who has satisfactorily passed a residential contractors’ examination. A residential building contractor may do, contract for, and take out permits for the work of any specialty contractor subject to the limitations contained herein.

Number of Questions 75
Time allowed (hours) 3

Subject Area # Quest.
Plan Reading 5
Concrete and Reinforcement 12
Masonry 9
Carpentry 12
Roofing 5
Interior Finishes 5
Exterior Finishes 5
Associated Trades 5
Safety 7
Hurricane Zone Residential 5

References


- **Or, if the book above is unavailable, it may be substituted by the following.** Substitute references shown below.

Residential Contractor (Spanish)

Residential contractor is a contractor whose services are limited to construction, remodeling, repair, or improvement of one-family, two-family, or three-family residences not exceeding two habitable stories above no more than one uninhabitable story and accessory use structures in connection therewith and has a qualifying agent with the experience, knowledge and skill gained by not less than four (4) years’ experience for a State of Florida certified or registered general, general building, building, sub-general, residential or sub-building contractor with at least one (1) year as either a superintendent or foreman or has an accredited college-level education in a construction-related field equivalent thereto, or any combination thereof, with at least one year of proven experience as a superintendent or foreman and who has satisfactorily passed a residential contractors’ examination. A residential building contractor may do, contract for, and take out permits for the work of any specialty contractor subject to the limitations contained herein.

Number of Questions 75
Time allowed (hours) 3

Subject Area # Quest.
Plan Reading 6
Concrete and Reinforcement 12
Masonry 10
Carpentry 12
Roofing 5
Exterior Finishes 5
Associated Trades 5
Safety 7
Hurricane Zone Residential 2

References

- Or, if the book above is unavailable, it may be substituted by the following. Substitute references shown below.

Roof Deck

Roof Deck Contractor is a contractor qualified and certified to erect, construct, fabricate and install roof decks of Portland cement or gypsum concrete, using lightweight aggregate, on joists or other supporting members erected by others, and shall include the placing of forms and welding of supporting members for forms and miscellaneous reinforcing of the deck and the proportioning, mixing and placing of cement, aggregate and water, provided, however, that roof decks of wood, metal, heavy aggregate concrete, glass or plastic and the application of roofing felts or other water resistant membranes shall not be a part of the scope of such work. The experience requirement for the qualifying agent for a roof deck contractor shall be one (1) year.

Number of Questions: 50
Time allowed (hours): 3

Subject Area

- Plan Reading & Estimating: 5
- Formwork: 10
- Welding & Cutting: 6
- Steel Joists & Metal Decking: 6
- Lightweight Concrete: 9
- Safety: 14

References

- Guide for Structural Lightweight-Aggregate Concrete - ACI 213R-03. American Concrete Institute, 38800 International Way, Country Club Dr, P.O. Box 9094, Farmington Hills, MI 48333. Available at http://www.concrete.org/general/home.asp

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Roofing

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.

Number of Questions 75
Time allowed (hours) 3

Subject Area # Quest.
Plan Reading & Estimating 9
Deck & Underlayment 10
Flashing 7
High Slope Roofing 16
Low Slope Roofing 16
Safety 7
High Wind Zone Roofing 10

References


- **OR Roofing Study Guide - COMING soon**, Prov Bookstore, 13614 Progress Blvd, Alachua, FL 32615. Replaces Core Core Level 1 2015, 27403-14 Advanced Roof Systems and 27202-14 Roofing Applications

Roofing (Haitian Creole)

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.

Number of Questions 75
Time allowed (hours) 3

Subject Area # Quest.
Plan Reading & Estimating 9
Deck & Underlayment 10
Flashing 7
High Slope Roofing 16
Low Slope Roofing 16
Safety 7
Hurricane Zone Roofing 10

References

- **OR Roofing Study Guide - COMING soon**, Prov Bookstore, 13614 Progress Blvd, Alachua, FL 32615. Replaces Core Core Level 1 2015, 27403-14 Advanced Roof Systems and 27202-14 Roofing Applications
Roofing (Spanish)

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.

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</table>

References

- **OR Roofing Study Guide - COMING soon**, Prov Bookstore, 13614 Progress Blvd, Alachua, FL 32615. Replaces Core Core Level 1 2015, 27403-14 Advanced Roof Systems and 27202-14 Roofing Applications
Room Air Conditioning Contractor

A Room Air Conditioning Contractor is a specialty mechanical contractor qualified and certified to install, service and repair any air conditioning unit consisting of and limited to a package unit, completely self-contained, air-cooled, usually called a room unit and not to exceed three (3) tons and attached to electric power only by the method of a plug-in receptacle. This unit, factory wired and supported only by window or wall supports, shall not have any duct work attached or any method of air distribution other than the unit's factory installed grill; provided that installation of any condensate drain or drains to the outside of the unit is not included in this work. (Ord. No. 69-11, § 2-4-69)

Number of Questions 75
Time allowed (hours) 3

Subject Area  # Quest.
General Knowledge 16
Installation 8
Maintenance and Service 15
Control Circuits 10
Associated Trades 10
Mechanical Code 10
Safety 6

References

Screen Enclosure

A Screen Enclosure Contractor is qualified and certified to fabricate, erect and install on grade only, screen enclosures with metal-supporting members, in whole or in part self-supporting, having walls and roof of screen except that the roof may be of metal or plastic where the area of solid wind resistant material does not exceed forty (40) percent of the area of screen roof. The scope of work shall include footings or slab on grade in connection therewith.

Number of Questions 75
Time allowed (hours) 3

Subject Area # Quest.
Foundations and Concrete 9
Plan Reading & Estimating 18
Safety 16
Understand and apply the building code as it pertains to the construction of screen enclosures and associated work. 7
Screen Enclosures 25

References

  Aluminum Association of Florida, 13165 McCrory Place, Suite 185, Orlando, FL 33432. Available at http://www.aaf.org/. (Also permitted is the Guide to Aluminum Construction in High-Wind Area ASCE7 Supplement to the 2010 Guide )
Sign Contractor (Non-Electric)
Tests a candidate's knowledge of installation, repair, and modification of non-electrical signs.

Number of Questions  75
Time allowed (hours)  3

Subject Area   # Quest.
Plan Reading 5
Concrete and Reinforcement  21
Wood 5
Structural Steel 9
Welding 8
Non-Electric Sign 8
Safety 19

References

# Sign Contractor (Non-Electric) (Spanish)

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

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**References**

Structural Steel Erection

A Structural Steel Erection Contractor is a contractor qualified and certified to erect structural steel shapes and plates including such minor field fabrication as may be necessary, of any profile, perimeter or cross-section, that are or may be used as structural members for buildings and structures, including steel joists, steel decking and siding, and communication towers, and including riveting, welding and rigging only in connection therewith.

Number of Questions 75
Time allowed (hours) 3

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<td>Rigging and Cranes</td>
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Number of Questions 75
Time allowed (hours) 3

Subject Area # Quest.
Plan Reading & Estimating 7
Structural Steel 15
Welding & Cutting 10
Structural Steel-Bolting 6
Metal Decking 6
Metal Buildings 4
Metal Joists & Trusses 11
Rigging and Cranes 11
Safety 5

References

Swimming Pool

A Swimming Pool Contractor is a contractor whose scope of work involves two (2) or more building trades or crafts and is qualified and certified to excavate, construct, fabricate, install and equip swimming pools and such contractor shall subcontract to a qualified contractor, in the field concerned, all other work set forth in this chapter as being the exclusive work of a plumbing, electrical, mechanical or liquefied petroleum gas contractor.

Number of Questions 75
Time allowed (hours) 3

Subject Area # Quest.
Plan Reading & Estimating 4
Site Preparation, Excavation and Backfilling 7
Pool Shell Construction 20
Interior Surface Preparation and Finishing 15
Pool Equipment & Piping 11
Accessory Work 3
Care and Operation 7
Safety 8

References


Swimming Pool (Spanish)

A Swimming Pool Contractor is a contractor whose scope of work involves two (2) or more building trades or crafts and is qualified and certified to excavate, construct, fabricate, install and equip swimming pools and such contractor shall subcontract to a qualified contractor, in the field concerned, all other work set forth in this chapter as being the exclusive work of a plumbing, electrical, mechanical or liquefied petroleum gas contractor.

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Subject Area # Quest.
Plan Reading & Estimating 4
Site Preparation, Excavation and Backfilling 7
Pool Shell Construction 20
Interior Surface Preparation and Finishing 15
Pool Equipment & Piping 11
Accessory Work 3
Care and Operation 7
Safety 8

References

Unit Masonry, Marble & Exterior Veneer

A Unit Masonry, Marble & Exterior Veneer Contractor is qualified and certified to select, cut and lay brick and concrete block or any other unit masonry products, or clay products, rough cut and dress stone, artificial stone and precast blocks, structural glass brick or block, decor block and veneer, laid at random or in course with or without mortar, or to do any part of any combination thereof and shall include the application of tile to floors and exterior wall surfaces; provided, however that the scope of works shall not include the pouring, placing or finishing of cast-in-place concrete except for masonry or precast concrete fences.

Number of Questions: 75
Time allowed (hours): 3

Subject Area                      # Quest.
Plan Reading & Estimating         7
Masonry Units                     13
Mortar & Grout                    12
Reinforcement                     12
Masonry Installation              15
Marble & Tile                     9
Safety                            7

References

Unit Masonry, Marble & Exterior Veneer Contractor Spanish

A Unit Masonry, Marble & Exterior Veneer Contractor is qualified and certified to select, cut and lay brick and concrete block or any other unit masonry products, or clay products, rough cut and dress stone, artificial stone and precast blocks, structural glass brick or block, decor block and veneer, laid at random or in course with or without mortar, or to do any part of any combination thereof and shall include the application of tile to floors and exterior wall surfaces; provided, however that the scope of works shall not include the pouring, placing or finishing of cast-in-place concrete except for masonry or precast concrete fences.

Number of Questions 75
Time allowed (hours) 3

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Plan Reading & Estimating 7
Masonry Units 13
Mortar & Grout 12
Reinforcement 12
Masonry Installation 15
Marble & Tile 9
Safety 7

References


