PSI Services LLC
https://test-takers.psiexams.com/sccon
Email: LLRSupport@psionline.com

South Carolina Department of Labor, Licensing, and Regulation

SOUTH CAROLINA CONTRACTOR'S LICENSING BOARD

COMMERCIAL CONTRACTOR
CANDIDATE INFORMATION BULLETIN

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DEPARTMENT POLICY FOR CONTRACTOR BOARD EXAMINATIONS

The South Carolina Department of Labor, Licensing and Regulation has adopted the following policy for the administration of examinations for licensure as provided by the South Carolina Contractor's Licensing Board. This policy will ensure the integrity of licensing examinations by eliminating the opportunity for candidates to attain test scores by fraudulent means and the compromise of examinations provided by the board's examination provider:

(1) any candidate that passes an exam shall not be allowed to take the same exam again;
(2) any candidate that fails an exam shall be given a diagnostic report that will provide feedback about performance on a particular content domain, which will direct the candidate to areas that require further study; and
(3) the department does not require the board's examination provider to provide a list of candidates for licensure examination.

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Assistant Deputy Director of Labor, Licensing and Regulation

Effective: June 15, 2004

EXAMINATIONS BY PSI

This Candidate Information Bulletin provides you with information about the examination and application process for becoming licensed as a commercial contractor in South Carolina. To be licensed, you must pass a Business and Law Examination on the South Carolina Code of Laws to confirm that you have attained at least a minimum level of knowledge regarding the principles, practices, statutes, and regulations. Most general and mechanical contractor classifications also require passing a technical examination. Those examinations are listed in this Candidate Information Bulletin. **The scope of work for these examinations can be found in the South Carolina Code of Laws booklet, "The Act" in section 40-11-410.**

The South Carolina Contractor's Licensing Board (state) has contracted with PSI Services LLC (PSI) to conduct its examination program. PSI provides examinations through a network of computer examination sites in South Carolina. PSI works closely with the state to be certain that examinations meet local as well as national requirements in basic principles of contractor services and examination development standards.

In order to obtain a license, candidates must pass the required examination(s) mandated by the state. Minimum qualification must be met before registering for the examination. Candidates for the general and mechanical contractor's license must have at least 2 years commercial experience within the last 5 years in the general or mechanical contractor classification in which these candidates are seeking licensure. The experience must be documented on an experience affidavit submitted with the commercial license application after passing the required examinations. Burglar and Fire Alarm contractor candidates are not required to have work experience.

A license issued by the South Carolina Contractor's Licensing Board allows an entity to engage in commercial as well as residential construction. If an entity is solely engaged in residential construction, the South Carolina Residential Home Builders Commission must license the entity. You may obtain a license application and examination information by calling (803) 896-4696.

Effective September 1, 2002, Burglar and Fire Alarm contractors are required to pass the NTS Level I training course in addition to the examinations given by PSI. Fire Alarm contractors can substitute the NTS certificate by submitting the NICET Level II certification. For information on NTS Level I certifications, contact the S.C. Alarm Association at (803) 252-0580. For NICET Level II, contact the Nat'l Institute for Certification in Engineering, 1420 King St, Alexandria, VA 22314-2794 (888) 476-4238.

Note: for burglar the NTS level 1 and for fire either the NTS level 1 or the NICET level II:

(3)(a) for burglar alarms, take the Level I training course and receive a certificate of completion from the National Training School; or

(b) for fire alarms, take the Level I training course and receive a certificate of completion from the National Training School or take the Level II training course and receive a certificate of completion from the National Institute for Certification in Engineering Technologies;

Examinations for each classification, except for Burglar and Fire Alarm classifications, **may only be taken 2 times in a 12-month period and thereafter only once in six months.** Once you are approved through PSI, you will receive a Registration Confirmation Notice, which is valid for 1 year, or until an examination classification has been failed twice within the referenced time frame. Candidates are required to submit a registration form and examination fee for each examination. **Note:** Business Management and Law for Commercial Contractors may be taken on an unlimited basis over a 12-month period.

All questions and requests for information about the examination and receiving the commercial license application should be directed to:

PSI
(855) 340-3701
https://test-takers.psiexams.com/sccon

Questions about requirements for licensure or which scope of regulated work requires a commercial contractor license should be directed to the:

South Carolina Contractor's Licensing Board
PO Box 11329
Columbia, SC 29211-1329
(803) 896-4686
www.llr.sc.gov/clb

Examination Fees

You may not schedule more than 6 hours of testing per examination day.

- ☐ Business Management and Law for Commercial Contractor (125 Minutes/$78)
- ☐ Alarm Code of Laws (1 Hour/$60)
- ☐ Air Conditioning (4 Hours/$64)
- ☐ Asphalt Paving (3 Hours/$64)
- ☐ Boiler Installation (3 Hours/$64)
- ☐ Bridges (3 Hours/$64)
- ☐ Limited Building Contractor (5 Hours/$78)
- ☐ National Commercial Building Contractor Examination (NASCLA) (5 ½ Hours/$110)
- ☐ Burglar Alarm (3 Hours/$60)
- ☐ Concrete (3 Hours/$78)
- ☐ Concrete Paving (3 Hours/$64)
- ☐ Electrician (5 Hours/$78)
- ☐ Fire Alarm (3 Hours/$64)
- ☐ Glass & Glazing (3 Hours/$64)
- ☐ Grading (2 Hours/$64)
- ☐ Heating (3 Hours/$78)
- ☐ Lightning Protection Systems (3 Hours/$64)
- ☐ Marine (3 Hours/$64)
- ☐ Non-Structural Renovation (2.5 Hours/$64)
- ☐ Packaged Equipment -Heat Pump (4 Hours/$64)
- ☐ Pipelines (3 Hours/$78)
- ☐ Plumber (4 Hours/$78)
- ☐ Pre-Engineered Metal Buildings (3 Hours/$64)
- ☐ Pressure & Process Piping (2 Hours/$78)
- ☐ Public Utilities - Electrical (3 Hours/$64)
- ☐ Refrigeration (3 Hours/$78)
- ☐ Roofing (3 Hours/$78)
- ☐ Structural Framing (2 Hours/$64)
- ☐ Swimming Pool (3 Hours/$64)
- ☐ Water & Sewer Lines (3 Hours/$64)
- ☐ Water & Sewer Plants (3 Hours/$78)
- ☐ Wood Frame Structures (3 Hours/$78)
- ☐ National Electrical Contractor Examination (NASCLA) (4.5 Hours/$116)

DESCRIPTION OF EXAMINATIONS

The South Carolina Contractor's Licensing Board has approved the Examination Content Outlines. The outlines reflect the minimum knowledge required by commercial contractors to perform their duties to the public in a competent and responsible manner. Changes in the content of the examinations will not be made until changes are made in the reference books.

If there is conflicting information between a code, law, or regulation and another authorized reference text, please be aware that the requirements of the code, law, or regulation prevail, and that the examination questions will be referenced to the code, law, or regulation.

Refer to the last topic in this Candidate Information Bulletin called "Scope of Work, Examination Contents, and Examination References" and look for the specific Examination Portion/License Category or Subcategory in which you are applying.

EXPERIMENTAL QUESTIONS

In addition to the number of questions per examination, a small number of one to ten experimental items, generally, approximately 10% of the number of questions, may be administered to candidates during the examination. These questions will not be scored. However, these questions will count against examination time. The administration of such unscored, experimental questions is an essential step in developing future licensing examinations.

EXAMINATION STUDY MATERIALS

If a test question answer could differ because of conflicting information in test reference sources, a legal requirement such as a code, law or regulation overrides any other reference. If two legal requirements appear to conflict, the state-specific code, law or regulation overrides the national one. Information from sources on the test reference list overrides information from other sources or persons.

The list of possible study reference books or material for the commercial contractor examinations is listed after each commercial contractor scope of work (refer to the last topic in this Candidate Information Bulletin called "Scope of Work, Examination Contents, and Examination References" and look for the specific Examination Portion/License Category or Subcategory in which you are applying).

The reference materials listed were used to prepare the questions for this examination. The examination may also contain questions based on trade knowledge or general industry practices. Except for Code books, you can base your answers on later editions of references as they become available. For Code questions, the examinations will be based only on the edition of the Code book that is listed.

The list is given to identify possible resources to use in answering the examination questions and does not constitute an endorsement by PSI or by the South Carolina Contractor's Licensing Board. Some questions may be based upon general knowledge of the specific trade and may not be listed in the reference books.

The following list of bookstores is provided to help you locate the books you may plan to purchase prior to taking your examination.

Many of these reference materials are available for purchase at www.psionlinestore.com or by calling the PSI Online Store toll-free at (866) 589-3088.

Contractors Institute
https://cistore.contractorsinstitute.com//
877-542-3673

Contractor's Seminars, Inc.
www.scexams.com
803-337-4444

My Contractor License
www.mycontractorslicense.com
877-699-0775

NOTE: ***All Burglar and Fire Alarm Contractor candidates are required to pass the Alarm Code of Laws Examination and the technical alarm examination of the specific license category in which they are applying. All other commercial General and Mechanical Contractor candidates are required to pass the Business Management and Law for Contractors Examination in addition to any technical examinations required for the specific license category or subcategory in which they are applying.***

EXAMINATION SCHEDULING PROCEDURES

Examinations (with the exception of the Burglar and Fire Alarm) may only be taken 2 times in a 12- month period and thereafter only once in six months. Burglar and Fire Alarm may test as often as desired.

ON-LINE (https://test-takers.psiexams.com/sccon)

For the fastest and most convenient examination scheduling process, PSI recommends that you register for your examinations using the Internet. You register online by accessing PSI's registration website at https://test-takers.psiexams.com/sccon. Internet registration is available 24 hours a day.

Log onto PSI's website and select Sign in / Create Account. Select Create Account. You are now ready to pay and schedule for the exam. Enter your zip code and a list of the testing sites closest to you will appear. Once you select the desired test site, available dates will appear.

TELEPHONE

For telephone registration, you will need a valid credit card (VISA, MasterCard, American Express or Discover). Call (855) 340-3701 and speak to a PSI registrar Monday through Friday between 7:30 am and 10:00 pm, and Saturday-Sunday between 9:00 am and 5:30 pm, Eastern Time.

SOCIAL SECURITY NUMBER CONFIDENTIALITY

PSI will use your social security number only as an identification number in maintaining your records and reporting your examination scores to the state. A Federal law requires state agencies to collect and record the social security numbers of all licensees of the professions licensed by the state. If you elect not to disclose your social security number to PSI, please enclose a separate letter explaining this with your Examination Registration Form. However, you **must** provide it to the state.

EXAM ACCOMMODATIONS

All PSI examination centers are equipped to provide access in accordance with the Americans with Disabilities Act (ADA) of 1990, and exam accommodations will be made in meeting a candidate's needs. A candidate with a disability or a candidate who would otherwise have difficulty taking the examination should request for alternative arrangements by **Clicking Here**.

CANCELING OR RESCHEDULING AN APPOINTMENT

You may cancel and reschedule an examination appointment without forfeiting your fee if your *cancellation notice is received 2 days before the scheduled examination date*. For example, for a Monday appointment, the cancellation notice would need to be received on the previous Saturday.

Note: A voice mail or email message is NOT an acceptable form of cancellation. Please use the PSI Website or call PSI and speak to a Customer Service Representative.

MISSED APPOINTMENT OR LATE CANCELLATION

Your registration will be invalid, and you will not be able to take the examination as scheduled, and you will forfeit your examination fee, if you:

- Do not cancel your appointment 2 days before the schedule examination date; or
- Do not appear for your examination appointment; or
- Arrive after examination start time; or
- Do not present proper identification when you arrive for the examination.

EXAMINATION SITE CLOSING FOR AN EMERGENCY

In the event that severe weather or another emergency forces the closure of an examination site on a scheduled examination date, your examination will be rescheduled. PSI personnel will attempt to contact you in this situation. However, you may check the status of your examination schedule by calling (855) 340-3701 or check the website at https://test-takers.psiexams.com/sccon. Every effort will be made to reschedule your examination at a convenient time as soon as possible. You will not be penalized. You will be rescheduled at no additional charge.

EXAMINATION SITE LOCATIONS

GREENVILLE/SPARTANBURG
Park East, Anderson Building
150 Executive Center Drive, Suite 104
Greenville, South Carolina 29615

COLUMBIA
111 Executive Center Dr, Suite 222
Columbia, SC 29210

CHARLESTON
4600 Goer Drive, Suite 112A
North Charleston, South Carolina 29406

BEAUFORT/HILTON HEAD
Regions Bank Building
69 Robert Smalls Pky/SC-170, Unit 4D
Beaufort, South Carolina 29906

MYRTLE BEACH
1601 North Oak Street, Suite 305
Myrtle Beach, South Carolina 29577

CHARLOTTE
Tyvola Executive Park 1
5701 Westpark Dr, #202
Charlotte, NC 28217

Additionally, PSI has examination centers in many other regions across the United States. You may take this examination at any of these locations. Once you have paid for the examination, enter your zip code and a list of the testing sites closest to you will appear.

REPORTING TO THE EXAMINATION SITE

On the day of the examination, you should arrive at least 30 minutes before your appointment. This extra time is for sign-in, identification, and familiarizing you with the examination process. *If you arrive late, you may not be admitted to the examination site and you will forfeit your examination registration fee.*

REQUIRED IDENTIFICATION AT EXAMINATION SITE

Candidates need to provide one (1) form of identification.

Candidates must register for the exam with their LEGAL first and last name as it appears on their government issued identification. The required identification below must match the first and last name under which the candidate is registered. Candidates are required to bring one (1) form of a valid (non-expired) signature bearing identification to the test site.

REQUIRED IDENTIFICATION (with photo) – Choose One

- State issued driver's license
- State issued identification card
- US Government Issued Passport
- US Government Issued Military Identification Card
- US Government Issued Alien Registration Card
- Canadian Government Issued ID
  NOTE: ID must contain candidate's photo, be valid and unexpired.

SECURITY PROCEDURES

The Commercial Contractors examinations are OPEN book. Candidates may bring reference books listed in this bulletin. Reference books may be highlighted, underlined, and/or indexed. They must be otherwise unmarked (not written in) and may not contain additional papers (loose or attached). **Proctors will thoroughly inspect all books before and after your examination.**

References may be tabbed/indexed with permanent tabs only. (Permanent tabs are defined as tabs that would tear the page if removed). Temporary tabs, (defined as Post-It notes) or other tabs that may be removed without tearing the page) are not allowed and must be removed from the reference before the exam will begin.

Please note a "ruler" or "scale" is not required for these examinations.

NO MATTER WHAT IS ON THE TAB PACKAGE, IF THE PSI PROCTOR IS ABLE TO REMOVE THE TABS WITHOUT RIPPING THE PAGE, YOU WILL NEED TO REMOVE THE TABS BEFORE YOU TAKE THE EXAM. DO NOT USE THE TABS THAT HAVE PAPER INSERTS. THE PAPER INSERTS WILL BE REMOVED.

THESE REFERENCES WILL NOT BE AVAILABLE IN THE EXAMINATION CENTER.

The following security procedures will apply during the examination:

- Only non-programmable calculators that are silent, battery-operated, do not have paper tape printing capabilities, and do not have a keyboard containing the alphabet will be allowed in the examination site.
- Candidates may take only approved items into the examination room.
- All personal belongings of candidates should be placed in the secure storage provided at each site prior to entering the examination room. Personal belongings **include**, **but are not limited to**, the following items:
  - **Electronic devices of any type, including cellular / mobile phones, recording devices, electronic watches, cameras, pagers, laptop computers, tablet computers (e.g., iPads), music players (e.g., iPods), smart watches, radios, or electronic games.**
  - **Bulky or loose clothing or coats** that could be used to conceal recording devices or notes. For security purposes outerwear such as, but not limited to: open sweaters, cardigans, shawls, scarves, vests, jackets and coats are not permitted in the testing room. **In the event you are asked to remove the outerwear, appropriate attire, such as a shirt or blouse should be worn underneath.**
  - **Hats or headgear not worn for religious reasons** or as religious apparel, including hats, baseball caps, or visors.
  - **Other personal items**, including purses, notebooks, reference or reading material, briefcases, backpacks, wallets, pens, pencils, other writing devices, food, drinks, and good luck items.
- Although secure storage for personal items is provided at the examination site for your convenience, PSI is not responsible for any damage, loss, or theft of any personal belongings or prohibited items brought to, stored at, or left behind at the examination site. PSI assumes no duty of care with respect to such items and makes no representation that the secure storage provided will be effective in protecting such items. If you leave any items at the examination site after your examination and

do not claim them within 30 days, they will be disposed of or donated, at PSI's sole discretion.

- Person(s) accompanying an examination candidate may not wait in the examination center, inside the building or on the building's property. This applies to guests of any nature, including drivers, children, friends, family, colleagues or instructors.
- No smoking, eating, or drinking is allowed in the examination center.
- During the check in process, all candidates will be asked if they possess any prohibited items. Candidates may also be asked to empty their pockets and turn them out for the proctor to ensure they are empty. The proctor may also ask candidates to lift up the ends of their sleeves and the bottoms of their pant legs to ensure that notes or recording devices are not being hidden there.
- Proctors will also carefully inspect eyeglass frames, tie tacks, or any other apparel that could be used to harbor a recording device. Proctors will ask to inspect any such items in candidates' pockets.
- If prohibited items are found during check-in, candidates shall put them in the provided secure storage or return these items to their vehicle. PSI will not be responsible for the security of any personal belongings or prohibited items.
- Any candidate possessing prohibited items in the examination room shall immediately have his or her test results invalidated, and PSI shall notify the examination sponsor of the occurrence.
- Any candidate seen giving or receiving assistance on an examination, found with unauthorized materials, or who violates any security regulations will be asked to surrender all examination materials and to leave the examination center. All such instances will be reported to the examination sponsor.
- Copying or communicating examination content is violation of a candidate's contract with PSI, and federal and state law. Either may result in the disqualification of examination results and may lead to legal action.
- Once candidates have been seated and the examination begins, they may leave the examination room only to use the restroom, and only after obtaining permission from the proctor. Candidate will not receive extra time to complete the examination.

REVIEW OF EXAMINATION QUESTIONS

PSI, in cooperation with the South Carolina Contractor's Licensing Board, will be consistently evaluating the examinations being administered to ensure that the examinations accurately measure competency in the required knowledge areas. Comments may be entered on the computer keyboard during the examination. Your comments regarding the questions and the examinations are welcomed. Comments will be analyzed by PSI examination development staff. While PSI does not respond to individuals regarding these comments, all substantive comments are reviewed. If a discrepancy is found during the comment review, PSI and the department may re-evaluate candidates' results and adjust them accordingly. **This is the only review of the examination available to candidates.**

TAKING THE EXAMINATION BY COMPUTER

The examination will be administered via computer. You will be using a mouse and computer keyboard.

TUTORIAL

Before you start your examination, an introductory tutorial is provided on the computer screen. The time you spend on this tutorial, up to 15 minutes, DOES NOT count as part of your examination time. Sample questions are included following the tutorial so that you may practice answering questions and reviewing your answers.

TEST QUESTION SCREEN

One question appears on the screen at a time. During the examination, minutes remaining will be displayed at the top of the screen and updated as you record your answers

IMPORTANT: After you have entered your responses, you will later be able to return to any question(s) and change your response, provided the examination time has not run out.

SCORE REPORTING

Your score will be given to you immediately following completion of the examination. The following summary describes the score reporting process:

- On screen - your score will appear immediately on the computer screen. This will happen automatically at the end of the time allowed for the examination.
  - If you pass, you will immediately receive a successful notification and performance summary on the screen.
  - If you do not pass, you will immediately receive an unsuccessful notification on the screen along with a printed diagnostic report indicating your strengths and weaknesses by examination type.
- On paper – an official result report will be printed at the examination site.

You may print the score report from your online account.

SCOPE OF WORK, EXAMINATION CONTENTS, AND EXAMINATION REFERENCES

AIR CONDITIONING EXAMINATION CONTENT OUTLINE

There are 80 questions in this examination. You will need to answer 56 questions correctly in order to pass. You are allowed 4 hours to complete this examination.

NOTE: All Air Conditioning - Commercial Contractor candidates are required to pass the Business Management and Law for Contractors Examination and the Air Conditioning Examination.

Air Conditioning Scope of Work

Air Conditioning which includes the installation, replacement, alteration, and repair of air conditioning equipment and systems which consist of a number of components necessary to produce conditioned air for environmental heating or cooling or both, within buildings. Hot water or steam heating systems or components are not included under this classification.

Air Conditioning Examination Content

1. General Piping (1 Item)
2. General Tubing (1 Item)
3. Pipe Assembly (1 Item)
4. Piping Systems (4 Items)
5. Drain Piping (1 Item)
6. Valves (1 Item)
7. Piping Specialties (1 Item)
8. Pumps (2 Items)
9. Piping Insulation (1 Item)
10. Hangers and Supports (General) (1 Item)
11. Mechanical Sound, Vibration, and Seismic Control (1 Item)
12. Water Treatment for Mechanical Systems (1 Item)
13. Heating and Cooling Principles (2 Items)
14. Refrigerants (1 Item)
15. Load Calculations (7 Items)
16. Heating and Cooling Equipment (1 Item)
17. Air Compressors (1 Item)
18. Testing, Adjusting, and Balancing (TAB) (2 Items)
19. HVACR Control Fundamentals (1 Item)
20. Control Schematics and Wiring Diagrams (1 Item)
21. HVACR Control Systems (1 Item)
22. Machine Room (1 Item)
23. Air Conditioning Systems (3 Items)
24. Heat Pumps (4 Items)
25. Furnaces (Warm Air Heating Equipment) (2 Items)
26. Specialized Heaters (2 Items)
27. Chimneys, Flues, Vents, and Vent Connectors (3 Items)
28. Combustion Air (2 Items)
29. General Fuel Knowledge (1 Item)
30. Natural Gas (2 Items)
31. LP Gas (2 Items)
32. General Duct Systems Knowledge and Principles (4 Items)
33. Duct Conversions/Equivalencies (4 Items)
34. Mechanical Sheet Metal Devices/Systems (2 Items)
35. Duct System Components (5 Items)
36. Metal Ducts (3 Items)
37. Fiberglass Ducts (1 Item)
38. Filtering Systems (1 Item)
39. Ventilation Equipment and Devices (1 Item)
40. Exhaust Systems (2 Items)
41. Safety (2 Items)

Air Conditioning Reference Books

2021 International Mechanical Code with SC modifications; or 2018 South Carolina Mechanical Code, International Code Council, 800-786-4452, shop.iccsafe.org

2021 International Gas Code with SC modifications; or 2018 South Carolina Fuel Gas Code, International Code Council, 800-786-4452, shop.iccsafe.org

Code of Federal Regulations - 29 CFR Part 1926 (OSHA), with latest available amendments, U.S. Government Printing Office, (866) 512-1800 or https://www.osha.gov/laws-regs/regulations/standardnumber/1926
-OR- ***Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI***, with latest available amendments, (866) 589-3088, www.psionlinestore.com (See order form at the end of the Candidate Information Bulletin).

Manual N - Commercial Load Calculation for Small Commercial Buildings, 5th Edition, 2012 printing, Air Conditioning Contractors of America (ACCA), (703) 575-4477, www.acca.org

Manual D - Residential Duct Systems, 3rd Edition, 2016 printing, Air Conditioning Contractors of America, 1712 New Hampshire Avenue N.W., Washington, DC 20009

Manual J - Residential Load Calcs, 2016 printing, Eighth Full Edition, Air Conditioning Contractors of America (ACCA), 2800 Shirlington Road, Suite 300. Arlington, VA 22206, (703) 575-4477, www.acca.org

ACCA Ductulator, Air Conditioning Contractors of America, 1712 New Hampshire Avenue N.W., Washington, DC 20009

Modern Refrigeration and Air Conditioning, 21st or 22nd edition, Goodheart-Wilcox Company, www.g-w.com

ALARM CODE OF LAWS EXAMINATION CONTENT OUTLINE

There are 20 questions in this examination. You will need to answer 14 questions correctly in order to pass. You are allowed 1 hour to complete this examination. **NOTE:** All Burglar Alarm and Fire Alarm Contractor candidates are required to pass the Alarm Code of Laws Examination and the technical examination of the specific license subcategory in which they are applying.

Alarm Code of Laws Scope of Work

The Alarm Code of Laws regulates what an alarm contractor can and cannot do in the business of alarm contracting within

the State of South Carolina and it is very important that the applicant is aware of the laws regulating alarm contracting in order to avoid a fine or penalty.

Alarm Code of Laws Examination Content

South Carolina Code of Laws regulating alarm contractors.

Alarm Code of Laws Reference Book

***Chapter 79 of the South Carolina Code of Laws, Burglar and Fire Alarm Contractor's License Law*, 2001**, https://www.scstatehouse.gov/code/t40c079.php. For the Alarm Code of Law Reference Chapter 79, you can download from the Internet and bring into the testing center, as long as it is stapled, spiral bound or 3-hole punched and put in a binder.

NOTE: *All Burglar and Fire Alarm Contractor candidates are required to pass the Alarm Code of Laws Examination and the technical alarm examination of the specific license category in which they are applying.*

ASPHALT PAVING EXAMINATION CONTENT OUTLINE

There are 50 questions in this examination. You will need to answer 35 questions correctly in order to pass. You are allowed 3 hours to complete this examination. **NOTE:** All Asphalt Paving - Commercial Contractor candidates are required to pass the Business Management and Law for Contractors Examination and the Asphalt Paving Examination.

Asphalt Paving Examination Content

1. Paving - Compaction and Stabilization (9 Items)
2. Paving - Asphalt Paving Procedures (9 Items)
3. Paving - Asphalt Properties and General Uses (10 Items)
4. Paving - Asphalt Emulsions - Uses and Application (6 Items)
5. Paving - Asphalt Maintenance Applications (8 Items)
6. Concrete (8 Items)

Asphalt Paving Reference Books

***Construction Planning, Equipment, and Methods*, 8th** Edition, R.L. Peurifoy, McGraw-Hill Publishing, Inc., PO Box 545, Blacklick, OH 43004-0545

The Contractor's Guide to Quality Concrete Construction, 2005, 3rd Edition, American Concrete Institute, (248) 848-3700, www.concrete.org

***Excavation and Grading Handbook*, 2006**, Craftsman Book Company, PO Box 6500, Carlsbad, CA 92018

***Standard Specifications for Highway Construction*, 2007**, South Carolina Department of Highways & Public Transportation, PO Box 191, Columbia, SC 29202, (803 737-4533). Available online (only): http://www.scdot.org/doing/doingPDFs/2007_full_specbook.pdf -OR- Standard Specifications for Highway Construction Selections as of 2007 by PSI, (855) 340-3701. (See order form at the end of this bulletin.)

***South Carolina 811 Excavator Manual*, latest edition.**

BOILER INSTALLATION EXAMINATION CONTENT OUTLINE

There are 50 questions in this examination. You will need to answer 35 questions correctly in order to pass. You are allowed 3 hours to complete this examination. **NOTE:** All Boiler Installation - Commercial Contractor candidates are required to pass the Business Management and Law for Contractors Examination and the Boiler Installation Examination.

Boiler Installation Scope of Work

Boiler installation' which includes those who are qualified to install, repair, and service boilers and boiler piping including the boiler auxiliary equipment, controls, and actuated machinery and dryer rolls. To qualify for this subclassification, a person must pass a technical examination administered by the board or must be the holder of the American Society of Mechanical Engineers (ASME) 'S' stamp or hold the National Board of Boiler and Pressure Vessel Inspectors (NBBPVI) 'R' stamp and meet the requirements for licensure according to this chapter.

1. Code Compliance (10 Items)
2. Boilers - Low Pressure (12 Items)
3. Boilers - High Pressure (8 Items)
4. Boilers - Steam Traps (5 Items)
5. Boilers - Safety (5 Items)
6. Piping (4 Items)
7. Welding (6 Items)

Boiler Installation Reference Books

2021 International Mechanical Code with SC modifications; or 2018 South Carolina Mechanical Code, International Code Council, 800-786-4452, shop.iccsafe.org

2021 International Gas Code with SC modifications; or 2018 South Carolina Fuel Gas Code, International Code Council, 800-786-4452, shop.iccsafe.org

***NFPA 85 - Single Burner Boiler Operations*, 2011**, National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471, 800 344-3555, www.nfpa.org

Low Pressure Boilers, Frederick M. Steingress, Daryl R. Walker, 4th Edition, 2019, American Technical Publishers, Inc., (800) 323-3471, www.atplearning.com.

***High Pressure Boilers*, 5th Edition, 2012**, Frederick M. Steingress & Harold J. Frost, American Technical Publishers, Inc., (800) 323-3471, www.atplearning.com

Pipefitter's Handbook, 1967, 3rd Edition, Forest R. Lindsey, Industrial Press, Inc., 200 Madison Avenue, New York, NY 10016

Pipe Welding Procedures, 1973, H. Rampaul, Industrial Press, Inc., 200 Madison Avenue, New York, NY 10016

***System Design Manual - Part III: Piping Design, Carrier*,** 1973, Carrier Air Conditioning Company, Carrier Parkway, Literature Distribution, Bldg. 8, PO Box 4808, Syracuse, NY 13221

BRIDGES EXAMINATION CONTENT OUTLINE

There are 50 questions in this examination. You will need to answer 35 questions correctly in order to pass. You are allowed 3 hours to complete this examination. **NOTE:** All Bridges - Commercial Contractor candidates are required to pass the Business Management and Law for Contractors Examination and the Bridges Examination.

1. Concrete (12 Items)
2. Concrete - Reinforcing Steel (5 Items)
3. Concrete Formwork (4 Items)
4. Structural Steel (8 Items)
5. Pile Driving/Sitework (8 Items)
6. Paving (3 Items)
7. Safety - Code of Federal Regulations (5 Items)
8. Estimating (3 Items)
9. Business – Math (2 Items)

Bridges Reference Books

Code of Federal Regulations - 29 CFR Part 1926 (OSHA), with latest available amendments, U.S. Government Printing Office, (866) 512-1800 or https://www.osha.gov/laws-regs/regulations/standardnumber/1926
-OR- ***Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI***, with latest available amendments, (866) 589-3088, www.psionlinestore.com (See order form at the end of the Candidate Information Bulletin).

Standard Specifications for Highway Construction, 2007, South Carolina Department of Highways & Public Transportation, PO Box 191, Columbia, SC 29202, (803 737-4533). Available online (only): http://www.scdot.org/doing/doingPDFs/2007_full_specbook.pdf **OR** Standard Specifications for Highway Construction Selections as of 2007 by PSI, (855) 340-3701. (See order form at the end of this bulletin.)

The Contractor's Guide to Quality Concrete Construction, 2005, 3rd Edition, American Concrete Institute, (248) 848-3700, www.concrete.org

South Carolina 811 Excavator Manual, latest edition.

(LIMITED) BUILDING CONTRACTOR EXAMINATION CONTENT OUTLINE

There are 80 questions in this examination. You will need to answer 56 questions correctly in order to pass. You are allowed 5 hours to complete this examination. **NOTE:** All Limited Building Contractor candidates are required to pass the Business Management and Law for Contractors Examination and the Limited Building Contractor Examination.

In addition to the number of examination items specified, a small number of "experimental" questions will be administered to candidates during this examination. The use of such questions is an essential step in developing accurate future examinations. These questions will NOT be scored, however, for this examination time to answer them has been added to the time allowed.

(Limited) Building Contractor Scope of Work

For Group #1, #2, and #3 limitations to construct or remodel commercial or residential buildings. Construction is limited to 3 stories in height.

Licensees under this classification may perform ancillary work, including grading, associated with the building or structure which the licensee has been engaged to construct. However, if a project includes work performed under a Mechanical Contractor sub-classification or any of these license subclassifications, the licensee must have a license in the appropriate license classification or subclassification to perform the work: Swimming Pools, Bridges, Boring and Tunneling, Water and Sewer Lines, Pipe Lines, Railroad Lines, Specialty Roofing, Marine, Water and Sewer Plants, and Asphalt Paving.

(Limited) Building Contractor Examination Content

1. Sitework (7 Items)
2. Concrete (10 Items)
3. Masonry (10 Items)
4. Metals (10 Items)
5. Carpentry (12 Items)
6. Thermal and Moisture Protection (9 Items)
7. Doors and Windows (2 Items)
8. Finishes (2 Items)
9. Safety (5 Items)
10. General Code, Plan Reading and Estimating (13 Items)

(Limited) Building Contractor Reference Books

2021 International Building Code with SC modifications; or the 2018 or 2021 South Carolina Building Code, International Code Council, 800-786-4452, shop.iccsafe.org

Code of Federal Regulations - 29 CFR Part 1926 (OSHA), with latest available amendments, U.S. Government Printing Office, (866) 512-1800 or https://www.osha.gov/laws-regs/regulations/standardnumber/1926
-OR- ***Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI***, with latest available amendments, (866) 589-3088, www.psionlinestore.com (See order form at the end of the Candidate Information Bulletin).

Modern Masonry - Brick, Block, Stone, Clois E. Kicklighter, 9th edition (2020). The Goodheart-Willcox Company, (800) 323-0440, www.g-w.com

Technical Digest No. 9 – Handling and Erection of Steel Joists and Joist Girders, 2008 or 2025, Steel Joint Institute, 234 W. Cheves Street, Florence, SC 29501, Phone: (843) 407-4091, Fax (843) 407-4044, www.steeljoist.org

Carpentry and Building Construction, 2010 or 2016 (Student Edition), John L. Feirer and Mark D. Feirer, McGraw-Hill, www.mheducation.com

***Roofing Construction and Estimating*,** 1995, Daniel Atcheson, Craftsman Book Company, PO Box 6500, Carlsbad, CA 92018

Contractor's Guide to Quality Concrete Construction, 2nd Edition, 1998; American Concrete Institute, POB 9094, Farmington Hills, MI 48333 248/848-3700, www.aci-int.org

***Pipe and Excavation Contracting*,** 2011; Dave Roberts, Craftsman Book Company, P.O. Box 6500, Carlsbad, CA 92018, 800/829-8123, www.craftsman-book.com/cbcstore/

***South Carolina 811 Excavator Manual*,** latest edition.

NASCLA-ACCREDITED EXAMINATION – COMMERCIAL GENERAL BUILDING CONTRACTOR

The NASCLA Accredited Examination Program was designed to assist contractors who wish to be licensed in multiple jurisdictions by offering a streamlined test taking option for the trade portion of the contractor examination. The ***NASCLA Accredited Examination for Commercial General Building Contractors*** was designed to assist candidates applying within individual state agencies for the general commercial building contractor classification or similar to.

Candidates who take and pass the NASCLA Accredited Examination can access NASCLA's National Examination Database (NED) located on https://ned.nascla.org to electronically send their transcripts to jurisdictions that accept the examination in lieu of their state specific trade portion, thereby reducing redundant licensing requirements. Candidates are expected to follow individual state agency applications to become licensed, in addition to taking a business and law examination, etc. If you are unsure if this examination will meet your specific license requirements in a participating state agency, please contact the state agency directly to confirm. A complete list of participating state agencies can be found on NASCLA's website by visiting: www.nascla.org/page/ParticipatingStateAg

Licensees under this classification may perform ancillary work, including grading, associated with the building or structure which the licensee has been engaged to construct. However, if a project includes work performed under a Mechanical Contractor sub-classification or any of these license subclassifications, the licensee must have a license in the appropriate license classification or subclassification to perform the work: Swimming Pools, Bridges, Boring and Tunneling, Water and Sewer Lines, Pipe Lines, Railroad Lines, Specialty Roofing, Marine, Water and Sewer Plants, and Asphalt Paving.

For questions regarding the examination, please contact NASCLA via email to info@nascla.org or by phone at (623) 587-9354.

There are 115 questions in this examination. You will need to answer 81 questions correctly in order to pass. You are allowed 330 minutes to complete this examination.

1. General Requirements (25 items)
2. Site Construction (15 items)
3. Concrete (6 items)
4. Masonry (4 items)
5. Metals (6 items)
6. Wood (5 items)
7. Thermal and Moisture Protection (5 items)
8. Doors, Windows, and Glazing (4 items)
9. Finishes (5 items)
10. Mechanical and Plumbing Systems (6 items)
11. Electrical Systems (3 items)
12. Procurement and Contracting Requirements (31 items)

The reference material listed below was used to prepare the questions for this examination. The examination may also contain questions based on trade knowledge or general industry practices. **Except for Code books**, you can base your answers on earlier or later editions of references as they become available. Candidates who use an older or newer version of these references do so at their own risk, and any resulting conflicts in answers will not be considered grounds for appeal. For Code questions, the examinations will be based **only** on the edition of the Code book that is listed.

Candidates may use a silent, nonprinting, non-programmable calculator in the examination center.

This examination is OPEN BOOK.

The following reference materials are allowed in the examination center.

- Mechanical and Electrical Systems for Construction Managers, 4th Edition, 2024, American Technical Publishers, 10100 Orland Parkway, Suite 200 Orland Park, IL 60467-5756; 800-323-3471 https://www.atplearning.com/product/2317/mechanical-and-electrical-systems-for-construction-managers
- ICC A117.1-2017 Standard for Accessible and Usable Buildings and Facilities; International Code Council; 500 New Jersey Avenue, NW 6th Floor, Washington, DC 20001; [P] 888-ICC-SAFE (888-422-7233); [F] (202) 783-2348; International: (202) 370-1800; www.ansi.org; https://shop.iccsafe.org/icc-a117-1-2017-standard-and-commentary-accessible-and-usable-buildings-and-facilities-1.html
- BCSI: Guide to Good Practice for Handling, Installing, Restraining, and Bracing of Metal Plate Connected Wood Trusses, 2018 (Updated March 2020), OR 2025 edition. Structural Building Components Association and Truss Plate Institute, (608) 274- 4849, https://www.sbcindustry.com/building-component-safety-information-bcsi
- Carpentry and Building Construction, 2016 edition, John L. Feirer and Mark D. Feirer, Publisher: McGraw-Hill, 828-277-3999, https://www.psionlinestore.com/carpentry-and-building-construction-2016/
- Code of Federal Regulations - 29 CFR Part 1926 (OSHA), 1926-2023 Edition, with latest available amendments, U.S. Government Printing Office, (866) 512-1800. Online version: https://www.osha.gov/laws-regs/regulations/standardnumber/1926; This may also be purchased from various vendors including Amazon.
  ---OR --
  PSI, OSHA Excerpts 2025 , Superintendent of Documents, P.O. Box 371954, Pittsburgh, PA 15250- 7954- (888)293-6498, http://bookstore.gpo.gov ---OR--- -PSI, https://www.psionlinestore.com/ or call (866) 589-3088.

- Construction Jobsite Management, 2017, 4th edition OR 2024, 5th edition. William R. Mincks, Hal Johnston, Delmar/Thomson Learning, PO Box 6904, Florence, KY 41022-6904, Phone (800) 347-7707, Fax (800) 487-8488, https://www.amazon.com/Construction-Jobsite-Management-William-Mincks/dp/130508179X
- Construction Project Management, 2014, 4th edition OR 2022, 5th edition. Frederick Gould, Nancy Joyce, Pearson Education, Inc. publishing as Prentice Hall, One Lake Street, Upper Saddle River NJ, 07458, 800-848-9500, https://www.amazon.com/Construction-Project-Management-Frederick-Gould/dp/0132877244
- NASCLA Contractors Guide to Business, Law and Project Management, Basic 14th Edition, National Association of State Contractors Licensing Agencies (NASCLA), Telephone: (623) 587-9354, www.nascla.org
- Erectors' Manual - Standards and Guidelines for the Erection of Pre-Cast Concrete Products, 1999, 2nd Edition, Publisher- Precast/Prestressed Concrete Institute (PCI), 209 W. Jackson Blvd, Chicago, IL 60606-6938, Phone (312) 786-0300, https://www.amazon.com/Erectors-manual-Standards-guidelines-erection/dp/0937040568
- Green Building Fundamentals, Michael Montoya, 2011, 2nd edition, Pearson Education Publishing, IBSN-10: 0-13-511108-0, Pearson Publishing, https://www.amazon.com/Green-Building-Fundamentals-Mike-Montoya/dp/0135111080
- Gypsum Construction Handbook, 7th edition, 2014, United States Gypsum Company (USG), RS Means Publishing, 700 Longwater Drive, Norwell, MA 02061, 800-334-3509, Fax: 800-632-6732, https://www.rsmeans.com/products/books/reference-books/commercial-construction/the-gypsum-construction-handbook-7th-edition.aspx?gclid=EAIaIQobChMIh5Pn_byG6AIVlONkCh1TzgUQEAQYBCABEgLAbvD_BwE
- Technical Digest No. 9 – Handling and Erection of Steel Joists and Joist Girders, 3rd Edition, 2008, Steel Joint Institute, 234 W. Cheves Street, Florence, SC 29501, Phone: (843) 407-4091, Fax (843) 407-4044, www.steeljoist.org
- International Building Code, 2021 or 2024, International Code Council, 5203 Leesburg Pike, Suite 600 Falls Church, VA 22041, 7039314533, www.intlcode.org/
- ACI 318-14 or ACI 318-19 (2022): Building Code Requirements for Structural Concrete and Commentary, American Concrete Institute, (248) 848-3700, https://www.concrete.org/topicsinconcrete/topicdetail.aspx?search=aci%20318
- Training and Certification of Field Personnel for Unbonded Post-Tensioning - Level 1 Field Fundamentals, 2003, 3rd Edition, Post-Tensioning Institute, 1717 W. Northern Avenue, Suite 114, Phoenix, AZ 85021, Phone (602) 870-7540, Fax (602) 870-7541, www.post-tensioning.org
- Modern Masonry - Brick, Block, Stone, Clois E. Kicklighter, 9th edition (2020). The Goodheart-Willcox Company, (800) 323-0440, www.g-w.com
- Pipe and Excavation Contracting, 2011, Dave Roberts, Craftsman Book Company, P.O. Box 6500, Carlsbad, CA 92018, Phone (800) 829-8123, Fax (631) 924-6580, www.craftsman-book.com.
- Principles and Practices of Commercial Construction, 2024, 11th edition. Cameron K. Andres and Ronald C. Smith, Pearson Education, Inc., One Lake Street, Upper Saddle River, NJ 07458, Phone (201) 236-7000.
- Roofing Construction and Estimating, Daniel Atcheson, 1995, (Reprinted 2022), Craftsman Book Company, (800) 829-8123, www.craftsman-book.com/products
- Placing Reinforcing Bars, Recommended Practices, 2019 or later printing, 10th edition, Concrete Reinforcing Steel Institute, Publisher- Concrete Reinforcing Steel Institute, 933 North Plum Grove Rd, Schaumburg, IL 60173, Phone (800) 328-6306, http://www.crsi.org/
- SDI (Steel Deck Institute) Manual of Construction with Steel Deck, 2016, Publisher-Steel Deck Institute, PO Box 25, Fox River Grove, IL 60021, Phone (847) 458-4647, Fax (847) 458-4648, https://www.sdi.org/publications-2/publications/
- The Contractor's Guide to Quality Concrete Construction, 2018, 4th Edition, American Concrete Institute, (248) 848-3700, https://www.amazon.com/Contractors-Guide-Quality-Concrete-Construction/dp/1641950471
- Developing Your Stormwater Pollution Prevention Plan – A Guide for Construction Sites, United States Environmental Protection Agency, 2007; EPA Document number 833R06004; EPA National Service Center for Environmental Publications, PO Box 42419 Cincinnati, OH 45242-3408; 800-490-9198
  This document can be downloaded as a pdf for free or it can be ordered as a hard copy through the EPA for free.

  To order online for free, do a Google search for the EPA document number 833R06004. Enter into the search bar ONLY the document number 833R06004 and no other characters.

  Then select the website option: nepis.epa.gov, then scroll down and choose the document title Developing Your Stormwater Pollution Prevention Plan – A Guide for Construction Sites, then choose the USPS icon and fill out the form with name and address.

  ANSI/EIMA 99-A-2017: Standard for Exterior Insulation and Finish Systems (EIFS) and EIFS with Drainage, 2017, ANSI/EIMA, https://www.mycontractorslicense.com/ANSI-EIMA-99-A-2017-p/ansi-eima-1book.htm

BURGLAR ALARM EXAMINATION CONTENT OUTLINE

There are 50 questions in this examination. You will need to answer 35 questions correctly in order to pass. You are allowed 3 hours to complete this examination. **NOTE:** All Burglar Alarm candidates are required to pass the Alarm Code of Laws Examination and the Burglar Alarm Examination.

1. General Electrical Knowledge (14 Items)
2. Low – Voltage (9 Items)
3. Intrusion Detection and Alarm Systems (10 Items)
4. Alarm Technology (17 Items)

2020 National Electrical Code (NEC) with SC modifications or National Electrical Code Handbook, 2020 edition

Understanding and Servicing Alarm Systems, 1999, 3rd Edition, H. William Trimmer, Butterworth-Heinemann, 225 Wildwood Avenue, Attn: Order Processing Department, Woburn, MA 01801.

Security: A Guide to Security System Design and Equipment Selection and Installation, 1994, Neil Cumming, Butterworth-Heinemann, 225 Wildwood Avenue, Attn: Order Processing Department, Woburn, MA 01801.

NTC Blue Book – Low Voltage Systems Handbook, 2020, National Training Center http://www.nationaltrainingcenter.net/index.xml

Ugly's Electrical References, George V. Hart, 2020, Jones and Bartlett, (800) 832-0034, www.uglys.net

BUSINESS MANAGEMENT AND LAW FOR COMMERCIAL CONTRACTORS CONTENT OUTLINE

There are 50 questions in this examination. You will need to answer 35 questions correctly in order to pass. You are allowed 125 minutes to complete this examination. **NOTE:** All Commercial Contractor candidates, except Fire Alarm and Burglar Alarm candidates, are required to pass the Business Management and Law for Contractors Examination and the technical examination of the specific license subcategory that they are applying for.

1. Business Management (2 Items)
2. Estimating and Bidding (10 Items)
3. Contracts and Agreements (12 Items)
4. Project Management (5 Items)
5. Insurance and Bonding (2 Items)
6. Safety Recordkeeping and Reporting (1 Item)
7. Labor Laws and Employment Regulations (3 Items)
8. Financial Management (7 Items)
9. Tax Laws (3 Items)
10. Liens (3 Items)
11. Environmental Laws and Regulations (2 Items)

Business Management and Law for Commercial Contractors Reference Book

NASCLA Contractors Guide to Business, Law and Project Management – South Carolina Commercial Contractors, 9th Edition, National Association of State Contractors Licensing Agencies (NASCLA), 23309 N. 17th Drive, Phoenix, Arizona, 85027, Telephone: (623) 587-9519, www.psionlinestore.com.

CONCRETE EXAMINATION CONTENT OUTLINE

There are 50 questions in this examination. You will need to answer 35 questions in order to pass. You are allowed 3 hours to complete this examination.

NOTE: All Concrete Contractor candidates are required to pass the Business Management and Law for Contractors Examination and the Concrete Examination.

1. Safety (6 Items)
2. Concrete - Earthwork (7 Items)
3. Concrete (15 Items)
4. Concrete - Reinforcement (10 Items)
5. Concrete - Formwork (12 Items)

Concrete Reference Books

2021 International Building Code with SC modifications; or the 2018 South Carolina Building Code, International Code Council, 800-786-4452, shop.iccsafe.org

Code of Federal Regulations - 29 CFR Part 1926 (OSHA), with latest available amendments, U.S. Government Printing Office, (866) 512-1800 or https://www.osha.gov/laws-regs/regulations/standardnumber/1926
-OR- ***Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI***, with latest available amendments, (866) 589-3088, www.psionlinestore.com (See order form at the end of the Candidate Information Bulletin).

SP-4 Formwork for Concrete, 2014, 8th Edition, David W. Johnston, American Concrete Institute, https://www.concrete.org/store.aspx

The Contractor's Guide to Quality Concrete Construction, 2005, 3rd Edition, American Concrete Institute, (248) 848-3700, www.concrete.org

Placing Reinforcing Bars, Recommended Practices, 10th Edition, 2019 or later printing, Concrete Reinforcing Steel Institute, (800) 328-6306, www.crsi.org

South Carolina 811 Excavator Manual, latest edition.

CONCRETE PAVING EXAMINATION CONTENT OUTLINE

There are 50 questions in this examination. You will need to answer 35 questions correctly in order to pass. You are allowed 3 hours to complete this examination. **NOTE:** All Concrete Paving - Commercial Contractor candidates are required to pass the Business Management and Law for Contractors Examination and the Concrete Paving Examination.

1. Sitework - Surveying Streets and Highways (2 Items)
2. Sitework - Surveying Buildings (2 Items)
3. Sitework - Measurements and Markings (3 Items)
4. Sitework - Excavating and Grading (4 Items)
5. Sitework - Subbases (5 Items)
6. Sitework - Compaction and Stabilization (5 Items)
7. Concrete (12 Items)
8. Concrete - Formwork (4 Items)
9. Concrete - Reinforcement (4 Items)
10. Safety - Code of Federal Regulations (4 Items)
11. Estimating - Plan Reading (5 Items)

Concrete Paving Reference Books

Code of Federal Regulations - 29 CFR Part 1926 (OSHA), with latest available amendments, U.S. Government Printing Office, (866) 512-1800 or https://www.osha.gov/laws-regs/regulations/standardnumber/1926
-OR- ***Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI***, with latest available amendments, (866) 589-3088, www.psionlinestore.com (See order form at the end of the Candidate Information Bulletin).

The Contractor's Guide to Quality Concrete Construction, 2005, 3rd Edition, American Concrete Institute, (248) 848-3700, www.concrete.org

Standard Specifications for Highway Construction, 2007, South Carolina Department of Highways & Public Transportation, PO Box 191, Columbia, SC 29202, (803 737-4533). Available online (only): http://www.scdot.org/doing/doingPDFs/2007_full_specbook.pdf **-OR-** Standard Specifications for Highway Construction Selections as of 2007 by PSI, (855) 340-3701. (See order form at the end of this bulletin.)

Construction Planning, Equipment, and Methods, 8th Edition, R.L. Peurifoy, McGraw-Hill Publishing, Inc., PO Box 545, Blacklick, OH 43004-0545

Excavation and Grading Handbook, 8th Edition, Craftsman Book Company, PO Box 6500, Carlsbad, CA 92018

South Carolina 811 Excavator Manual, latest edition.

ELECTRICIAN EXAMINATION CONTENT OUTLINE

There are 80 questions in this examination. You will need to answer 56 questions correctly in order to pass. You are allowed 5 hours to complete this examination. **NOTE:** All Electrician - Commercial Contractor candidates are required to pass the Business Management and Law for Contractors Examination and the Electrician Examination.

Note: SC Electrician-Commercial Contractor candidates have a choice of trade exams. They can elect to take either the NASCLA Accredited Examination Trade Examination for Electrical Contractors which is accepted by multiple state agencies or the SC Electrician state specific exam. There are differences in these exams. See the additional information outlined in this bulletin for each exam to compare the differences and determine which exam best fits your business needs.

In addition to the number of examination items specified, a small number of "experimental" questions will be administered to candidates during this examination. The use of such questions is an essential step in developing accurate future examinations. These questions will NOT be scored, however, for this examination time to answer them has been added to the time allowed.

1. General Electrical Knowledge (9 Items)
2. Service, Feeders, and Branch Circuits (9 Items)
3. Grounding and Bonding (9 Items)
4. Conductors and Cables (9 Items)
5. Raceways and Boxes (9 Items)
6. Special Occupancies and Equipment (2 Items)
7. Electrical Power (7 Items)
8. Motors (7 Items)
9. Low Voltage (2 Items)
10. Lighting (5 Items)
11. Illuminated Signs (2 Items)
12. Fire Detection and Alarm Systems (2 Items)
13. Safety Information (8 Items)

Electrician Reference Books

2020 National Electrical Code (NEC) with SC modifications or National Electrical Code Handbook, 2020 edition

NFPA 72 - National Fire Alarm Code, 2019, National Fire Protection Association, (800) 344-3555, www.nfpa.org

American Electricians' Handbook, Croft, Hartwell, and Summers, 17th Edition, 2021, McGraw-Hill, (800) 262-4729, shop.mcgraw-hill.com

Code of Federal Regulations - 29 CFR Part 1926 (OSHA), with latest available amendments, U.S. Government Printing Office, (866) 512-1800 or https://www.osha.gov/laws-regs/regulations/standardnumber/1926
-OR- ***Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI***, with latest available amendments, (866) 589-3088, www.psionlinestore.com (See order form at the end of the Candidate Information Bulletin).

Key Word Index, *(Edition to match the NEC in #1)*, Tom Henry, Tom Henry Bookstore, 7449 Citrus Avenue, Winter Park, FL 32792.

South Carolina 811 Excavator Manual, latest edition.

NASCLA-ACCREDITED TRADE EXAMINATION FOR ELECTRICAL CONTRACTOR

There are 100 questions in this examination. You will need to answer 75 questions correctly in order to pass. You are allowed 270 minutes to complete this examination.

The NASCLA Accredited Examination Program was designed to assist contractors and tradesmen who wish to be licensed in multiple jurisdictions by offering a streamlined test taking option for the trade portion of the examination. Candidates who take and pass the NASCLA Accredited Examination can access NASCLA's National Examination Database (NED) located on https://ned.nascla.org to electronically send their transcripts to jurisdictions that accept the examination in lieu of their state specific trade portion, thereby reducing redundant licensing requirements. Candidates are expected to follow individual state agency applications to become licensed, in addition to taking a business and law examination, etc. If you are unsure if this examination will meet your specific license requirements in a participating state agency, please contact the state agency directly to confirm. A complete list of

participating state agencies can be found on NASCLA's website by visiting: www.nascla.org.

NOTE: All Unlimited Building Contractor candidates are required to pass the Business Management and Law for Contractors Examination and the Unlimited Building Contractor Examination.

NASCLA-Accredited Trade Examination For Electrical Contractor Examination Content

1. Project Design & Management (8 Items)
2. Safety (9 Items)
3. Electrical Theory and Principles (11 Items)
4. General Code Requirements (17 Items)
5. Wiring and Protection (17 Items)
6. Wiring Methods & Materials (16 Items)
7. General Equipment Use (13 Items)
8. Special Occupancies, Special Equipment, and Special Conditions (8 Items)
9. Communication Systems (1 Item)

NASCLA-Accredited Trade Examination For Electrical Contractor Examination Content Reference Books

Physical Diagram/Blueprint Packet to be handed out onsite at the testing center.

National Electrical Code or National Electrical Code Handbook, 2020 or 2023, National Fire Protection Assoc, (617) 770-3000, www.nfpa.org, 2020: ISBN-13 978-1455922970 or ISBN-10 1455922978, 2023: ISBN-13 978-1455930340 or ISBN-10 1455930342.

Code of Federal Regulations - 29 CFR 1926 - OSHA Construction Industry Regulations, 2024, Office of the Federal Register, Superintendent of Documents, PO Box 371954, Pittsburgh, PA, https://www.osha.gov/laws-regs/regulations/standardnumber/1926, ISBN-13: 978-1663802439

Code of Federal Regulations - 29 CFR 1910 - OSHA Occupational Safety and Health Standards, 2024, Office of the Federal Register, Superintendent of Documents, PO Box 371954, Pittsburgh, PA, IBSN-13: 979-888+212041, *https://www.osha.gov/laws-regs/regulations/standardnumber /1910.*

A Guide to the Project Management Body of Knowledge, Project Management Institute, 2021, 7th edition.

ANSI/ASHRAE/IES 90.1-2022, Energy Standard for Sites and Buildings Except Low-Rise Residential Buildings - I-P edition https://webstore.ansi.org/standards/ashrae/ansiashraeies902022

NASCLA Contractors Guide to Business, Law and Project Management, Basic 14th Ed., 2024, NASCLA, National Association of State Contractors Licensing Agencies (NASCLA), 23309 N. 17th Drive, Phoenix, Arizona 85027, Telephone: (623) 587-9519, www.nascla.org

NFPA 70E - Standard for Electrical Safety in the Workplace, 2024, National Fire Protection Association, ISBN-10: 1455930482 or ISBN-13: 978-1455930487.

Ugly's Electrical References, George V. Hart, 2023 Edition, Jones and Bartlett, (800) 832-0034, www.uglys.net ISBN-10: 1284275914 or ISBN-13: 978-1284275919.

Understanding Electrical Theory for NEC Applications, Mike Holt, Mike Holt Publications, ISBN: 978-1-950431-68-7

Optional References

Ferm's Fast Finder Index, Independent Alliance of the Electrical Industry (IAEI), https://www.iaei.org/store/ListProducts.aspx?catid=785688

Key Word Index by Tom Henry, Based on the National Electrical Code (2017, 2020, 2023 Editions)

FIRE ALARM EXAMINATION CONTENT OUTLINE

There are 50 questions in this examination. You will need to answer 35 questions correctly in order to pass. You are allowed 3 hours to complete this examination. **NOTE:** All Fire Alarm Contractor candidates are required to pass the Alarm Code of Laws Examination and the Fire Alarm Examination.

1. General Electrical Knowledge (15 Items)
2. Low – Voltage (15 Items)
3. Fire Detection and Alarm Systems (20 Items)

Fire Alarm Reference Books

2020 National Electrical Code (NEC) with SC modifications or National Electrical Code Handbook, 2020 edition

NFPA 72 - National Fire Alarm Code, 2019, National Fire Protection Association, (800) 344-3555, www.nfpa.org

Fire Alarm Signaling Systems Handbook, 2010, 4th Edition, Bukowski & O'Laughlin, National Fire Protection Association, (800) 344-3555, www.nfpa.org

GLASS AND GLAZING EXAMINATION CONTENT OUTLINE

There are 60 questions in this examination. You will need to answer 42 questions correctly in order to pass. You are allowed 2 hours to complete this examination.

NOTE: All Glass & Glazing – Commercial Contractor candidates are required to pass the Business Management and Law for Contractors Examination and the Glass and Glazing Examination.

1. General Glazing and Glass Systems (30 items)
2. Metal Framing (4 items)
3. Installation Methods, Tools, and Equipment (4 items)
4. Sealant Installations (4 items)

5. Safety (6 items)
6. Code Requirements (12 items)

Code of Federal Regulations - 29 CFR Part 1926 (OSHA), with latest available amendments, U.S. Government Printing Office, (866) 512-1800 or https://www.osha.gov/laws-regs/regulations/standardnumber/1926
-OR- ***Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI***, with latest available amendments, (866) 589-3088, www.psionlinestore.com (See order form at the end of the Candidate Information Bulletin).

GANA Glazing Manual (50th Anniversary Edition), GANA (Glazing Association of North America), http://www.glasswebsite.com/publications.html

GANA Sealant Manual, 2008 Edition, GANA (Glazing Association of North America), http://www.glasswebsite.com/publications.html

2021 International Building Code with SC modifications; or the 2018 South Carolina Building Code, International Code Council, 800-786-4452, shop.iccsafe.org

GRADING EXAMINATION CONTENT OUTLINE

There are 40 questions in this examination. You will need to answer 28 questions correctly in order to pass. You are allowed 2 hours to complete this examination. **NOTE:** All Grading - Commercial Contractor candidates are required to pass the Business Management and Law for Contractors Examination and the Grading Examination.

1. General Knowledge (15 Items)
2. Excavating and Grading (20 Items)
3. Safety - Code of Federal Regulations (5 Items)

Grading Reference Books

Standard Specifications for Highway Construction, 2007, South Carolina Department of Highways & Public Transportation, PO Box 191, Columbia, SC 29202, (803 737-4533). Available online (only): http://www.scdot.org/doing/doingPDFs/2007_full_specbook.pdf **OR** Standard Specifications for Highway Construction Selections as of 2007 by PSI, (855) 340-3701. (See order form at the end of this bulletin.)

Code of Federal Regulations - 29 CFR Part 1926 (OSHA), with latest available amendments, U.S. Government Printing Office, (866) 512-1800 or https://www.osha.gov/laws-regs/regulations/standardnumber/1926
-OR- ***Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI***, with latest available amendments, (866) 589-3088, www.psionlinestore.com (See order form at the end of the Candidate Information Bulletin).

Excavation and Grading Handbook, 2006, Craftsman Book Company, PO Box 6500, Carlsbad, CA 92018

Construction Planning, Equipment, and Methods, 8th Edition, R.L. Peurifoy, McGraw-Hill Publishing, Inc., PO Box 545, Blacklick, OH 43004-0545

South Carolina 811 Excavator Manual, latest edition.

HEATING EXAMINATION CONTENT OUTLINE

There are 50 questions in this examination. You will need to answer 35 questions correctly in order to pass. You are allowed 3 hours to complete this examination. **NOTE:** All Heating - Commercial Contractor candidates are required to pass the Business Management and Law for Contractors Examination and the Heating Examination.

1. Code Compliance (8 Items)
2. HARV General (4 Items)
3. HARV Controls (4 Items)
4. HARV Load Calculation (7 Items)
5. Fuel Gas Systems (6 Items)
6. Piping (6 Items)
7. Ducts (3 Items)
8. Boilers - Low Pressure (7 Items)
9. Boilers - High Pressure (5 Items)

Heating Reference Books

2021 International Mechanical Code with SC modifications; or 2018 South Carolina Mechanical Code, International Code Council, 800-786-4452, shop.iccsafe.org

2021 International Gas Code with SC modifications; or 2018 South Carolina Fuel Gas Code, International Code Council, 800-786-4452, shop.iccsafe.org

Trane Ductulator, TRANE Company, 8929 Western Way, Suite 1, Jacksonville, FL 32256

ACCA Ductulator, Air Conditioning Contractors of America, 1712 New Hampshire Avenue N.W., Washington, DC 20009

Low Pressure Boilers, Frederick M. Steingress, Daryl R. Walker, 5th Edition, American Technical Publishers, Inc., (800) 323-3471, www.atplearning.com.

High Pressure Boilers, 6th Edition, 2019, Frederick M. Steingress & Harold J. Frost, American Technical Publishers, Inc., (800) 323-3471, www.atplearning.com

Manual N - Commercial Load Calculation for Small Commercial Buildings, 5th Edition, 2008, Air Conditioning Contractors of America (ACCA), (703) 575-4477, www.acca.org

Manual J - Residential Load Calcs, reprinted 2006, Eighth Full Edition, Air Conditioning Contractors of America (ACCA), 2800 Shirlington Road, Suite 300. Arlington, VA 22206, (703) 575-4477, www.acca.org

System Design Manual - Part III: Piping Design, Carrier, 1960, Carrier Air Conditioning Company, Carrier Parkway, Literature Distribution, Bldg. 8, PO Box 4808, Syracuse, NY 13221

Pipefitter's Handbook, 1967, 3rd Edition, Forest R. Linsey, Industrial Press, Inc., 200 Madison Avenue, New York, NY 10016

Modern Refrigeration and Air Conditioning, 21st or 22nd edition, Goodheart-Wilcox Company, www.g-w.com

Refrigeration and Air Conditioning Technology, 6th edition, 2009, Whitman/Johnson/Tomczyk/Silberstein, Cengage Learning, www.cengage.com

3.1 ***Trane Air Conditioning Manual***, 1996, TRANE Company, 8929 Western Way, Suite 1, Jacksonville, FL 32256

3.2 ***ASHRAE Handbook of Fundamentals***, 1997 American Society of Heating, Refrigeration, and Air Conditioning Engineers, 1791 Tullie Circle, Atlanta, GA 30329

LIGHTNING PROTECTION EXAMINATION CONTENT OUTLINE

There are 50 questions in this examination. You will need to answer 35 questions correctly in order to pass. You are allowed 3 hours to complete this examination. **NOTE:** All Lightning Protection - Commercial Contractor candidates are required to pass the Business Management and Law for Contractors Examination and the Lightning Protection Examination.

1. NFPA 780 (28 Items)
2. General Theory (11 Items)
3. NEC (11 Items)

Lightning Protection Systems Reference Books

2020 National Electrical Code (NEC) with SC modifications or National Electrical Code Handbook, 2020 edition

NFPA 780 - Standard for the Installation of Lightning Protection Systems, 2020, National Fire Protection Association, (800) 344-3555, www.nfpa.org

South Carolina 811 Excavator Manual, latest edition.

MARINE EXAMINATION CONTENT OUTLINE

There are 50 questions in this examination. You will need to answer 35 questions correctly in order to pass. You are allowed 3 hours to complete this examination. **NOTE:** All Marine - Commercial Contractor candidates are required to pass the Business Management and Law for Contractors Examination and the Marine Examination.

1. Safety - Marine (6 Items)
2. Miscellaneous Engineering - Pile Driving (25 Items)
3. Concrete (15 Items)
4. Concrete - Reinforcing Steel (4 Items)

Marine Reference Books

Code of Federal Regulations - 29 CFR Part 1926 (OSHA), with latest available amendments, U.S. Government Printing Office, (866) 512-1800 or https://www.osha.gov/laws-regs/regulations/standardnumber/1926
-OR- ***Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI***, with latest available amendments, (866) 589-3088, www.psionlinestore.com (See order form at the end of the Candidate Information Bulletin).

Construction Planning, Equipment, and Methods, 8th Edition, R.L. Peurifoy, McGraw-Hill Publishing, Inc., PO Box 545, Blacklick, OH 43004-0545

Design and Control of Concrete Mixtures, 15th Edition, 2011, S.H. Kosmatka and W.C. Panarese, Portland Cement Association, 5420 Old Orchard Road, Skokie, IL 60077-1083, 847-966-6200, www.portcem.org

Placing Reinforcing Bars, Recommended Practices, 10th Edition, 2019 or later printing, Concrete Reinforcing Steel Institute, (800) 328-6306, www.crsi.org

South Carolina 811 Excavator Manual, latest edition.

NON-STRUCTURAL RENOVATION EXAMINATION CONTENT OUTLINE

There are 60 questions in this examination. You will need to answer 42 questions correctly in order to pass. You are allowed 150 minutes to complete this examination.

Nonstructural Renovation" which includes interior and exterior installing, remodeling, renovations, and finishes of acoustical ceiling systems and panels, load-bearing and nonload-bearing drywall partitions, lathing and plastering, flooring (excluding carpet) and finishing, interior recreational surfaces, window and door installation, and installation of fixtures, cabinets, and millwork; and which also includes fireproofing, insulation, lining, painting, partitions, sandblasting, interior and exterior wall covering, and waterproofing. This subclassification does not include alterations to load-bearing portions of a structure.

1. Plan Reading and Estimating (4 Items)
2. Windows and Doors (8 Items)
3. Associated Trades (including insulation, moisture control, flooring, and general finishing) (9 Items)
4. Rough Carpentry (8 Items)
5. Finish Carpentry (6 Items)
6. Siding (4 Items)
7. Drywall (8 Items)
8. Metal Stud Framing (8 Items)
9. OSHA Safety (5 Items)

Non-Structural Renovation Reference Books

International Building Code, 2021 edition, with SC modifications; or the 2018 South Carolina Building Code, International Code Council, 5203 Leesburg Pike, Suite 600 Falls Church, VA 22041, 7039314533, www.intlcode.org/

Carpentry and Building Construction, 2016 (Student Edition), John L. Feirer and Mark D. Feirer, McGraw-Hill, www.mheducation.com

Finish Carpenter's Manual, Jim Tolpin, 1993, Craftsman Book Company, (800) 829-8123, www.craftsmanbook.com

Gypsum Construction Handbook, 7th edition, 2014, United States Gypsum Company (USG), RS Means Publishing, 700 Longwater Drive, Norwell, MA 02061, 800-334-3509, Fax: 800-632-6732, http://www.wiley.com/buy/9781118749845.

The Complete Illustrated Guide to Furniture and Cabinet Construction, 2001, Andy Rae, 1-56158-402-9, The Taunton Press, 63 South Main St., P.O. Box 5506, Newtown, CT 06470-5506

Code of Federal Regulations - 29 CFR Part 1926 (OSHA), with latest available amendments, U.S. Government Printing Office, (866) 512-1800 or https://www.osha.gov/pls/oshaweb/owastand.display_standard_group?p_toc_level=1&p_part_number=1926
OR
Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI, with latest available amendments, (866) 589-3088. www.psionlinestore.com

PLUMBER EXAMINATION CONTENT OUTLINE

There are 80 questions in this examination. You will need to answer 56 questions correctly in order to pass. You are allowed 4 hours to complete this examination. **NOTE:** All Plumber - Commercial Contractor candidates are required to pass the Business Management and Law for Contractors Examination and the Plumber Examination.

1. ADA Accessibility (1 Items)
2. General Plumbing Knowledge (6 Items)
3. General Plumbing Regulations (3 Items)
4. Hangers and Supports (General) (2 Items)
5. Materials (2 Items)
6. Joints and Connections (3 Items)
7. Fixtures and Equipment (3 Items)
8. Water Heaters (4 Items)
9. Water Supply and Distribution (3 Items)
10. Backflow Prevention (1 Item)
11. Sanitary Drainage Systems (4 Items)
12. Cleanouts (2 Items)
13. Indirect and Special Waste (2 Items)
14. Sanitary Venting (6 Items)
15. Traps and Interceptors (3 Items)
16. Storm Piping Systems (2 Item)
17. Plumbing - Developed Length (5 Items)
18. DWV Isometric Analysis (Isometric Based) (10 Items)
19. Water Supply Isometric Analysis (4 Items)
20. Roof Drain Isometric Analysis (3 Items)
21. Pipe Assembly (1 Item)
22. Valves (1 Item)
23. General Fuel Knowledge (3 Items)
24. Natural Gas (3 Items)
25. LP - Gas (3 Items)

Plumber Reference Books

2021 International Plumbing Code; or 2021 South Carolina Plumbing Code, International Code Council, 800-786-4452, shop.iccsafe.org .

2021 International Gas Code with SC modifications; or 2021 South Carolina Fuel Gas Code, International Code Council, 800-786-4452, shop.iccsafe.org

Mathematics for Plumbers and Pipefitters, Lee Smith, 8th Edition, 2013, www.cengage.com

South Carolina 811 Excavator Manual, latest edition.

PACKAGED EQUIPMENT EXAMINATION CONTENT OUTLINE

There are 80 questions in this examination. You will need to answer 56 questions correctly in order to pass. You are allowed 4 hours to complete this examination. **NOTE:** All Package Equipment - Commercial Contractor candidates are required to pass the Business Management and Law for Contractors Examination and the Package Equipment Examination.

1. General Piping (1 Item)
2. General Tubing (1 Item)
3. Pipe Assembly (1 Item)
4. Piping Systems (2 Items)
5. Drain Piping (1 Item)
6. Valves (1 Item)
7. Piping Insulation (1 Item)
8. Hangers and Supports (General) (1 Item)
9. Mechanical Sound, Vibration, and Seismic Control (1 Item)
10. Heating and Cooling Principles (2 Items)
11. Refrigerants (1 Item)
12. Load Calculations (8 Items)
13. Heating and Cooling Equipment (1 Item)
14. Testing, Adjusting, and Balancing (TAB) (2 Items)
15. HVACR Control Fundamentals (1 Item)
16. Control Schematics and Wiring Diagrams (1 Item)
17. HVACR Control Systems (1 Item)
18. Machine Room (1 Item)
19. Air Conditioning Systems (6 Items)
20. Heat Pumps (5 Items)
21. Furnaces (Warm Air Heating Equipment) (2 Items)
22. Chimneys, Flues, Vents, and Vent Connectors (3 Items)
23. Combustion Air (2 Items)
24. General Fuel Knowledge (1 Item)
25. Natural Gas (1 Item)
26. General Duct Systems Knowledge and Principles (4 Items)
27. Duct Conversion/Equivalencies (4 Items)
28. Mechanical Sheet Metal Devices/Systems (2 Items)
29. Duct System Components (5 Items)
30. Metal Ducts (3 Items)
31. Fiberglass Ducts (1 Item)
32. Filtering Systems (1 Item)
33. Ventilation Equipment and Devices (2 Items)

34. Exhaust Systems (2 Items)
35. General Electrical Knowledge (2 Items)
36. Requirements for Electrical Installations (1 Item)
37. Electrical/Electronic Fundamentals (1 Item)
38. Safety (2 Items)
39. Fire Rated Construction (1 Item)
40. General Plan Reading (1 Item)

Packaged Equipment Reference Books

2021 International Mechanical Code with SC modifications; or 2018 South Carolina Mechanical Code, International Code Council, 800-786-4452, shop.iccsafe.org

2021 International Gas Code with SC modifications; or 2018 South Carolina Fuel Gas Code, International Code Council, 800-786-4452, shop.iccsafe.org

ACCA Ductulator, Air Conditioning Contractors of America, 1712 New Hampshire Avenue N.W., Washington, DC 20009

Trane Ductulator, TRANE Company, 8929 Western Way, Suite 1, Jacksonville, FL 32256

Code of Federal Regulations - 29 CFR Part 1926 (OSHA), with latest available amendments, U.S. Government Printing Office, (866) 512-1800 or https://www.osha.gov/laws-regs/regulations/standardnumber/1926
-OR- ***Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI***, with latest available amendments, (866) 589-3088, www.psionlinestore.com (See order form at the end of the Candidate Information Bulletin).

Manual N - Commercial Load Calculation for Small Commercial Buildings, 5th Edition, 2008, Air Conditioning Contractors of America (ACCA), (703) 575-4477, www.acca.org

Manual D - Residential Duct Systems, 3rd Edition, 2009, Air Conditioning Contractors of America, 1712 New Hampshire Avenue N.W., Washington, DC 20009

Manual J - Residential Load Calcs, reprinted 2006, Eighth Full Edition, Air Conditioning Contractors of America (ACCA), 2800 Shirlington Road, Suite 300. Arlington, VA 22206, (703) 575-4477, www.acca.org

Pipefitter's Handbook, 1967, 3rd Edition, Forest R. Lindsey, Industrial Press, Inc., 200 Madison Avenue, New York, NY 10016

Modern Refrigeration and Air Conditioning, 21st or 22nd edition, Goodheart-Wilcox Company, www.g-w.com

Refrigeration and Air Conditioning Technology, 6th edition, 2009, Whitman/Johnson/Tomczyk/Silberstein, Cengage Learning, www.cengage.com

3.1. ***Trane Air Conditioning Manual***, 1996, TRANE Company, 8929 Western Way, Suite 1, Jacksonville, FL 32256
3.2. ***ASHRAE Handbook of Fundamentals***, 1997 American Society of Heating, Refrigeration, and Air Conditioning Engineers, 1791 Tullie Circle, Atlanta, GA 30329

PIPELINES EXAMINATION CONTENT OUTLINE

There are 50 questions in this examination. You will need to answer 35 questions correctly in order to pass. You are allowed 3 hours to complete this examination. **NOTE:** All Pipelines - Commercial Contractor candidates are required to pass the Business Management and Law for Contractors Examination and the Pipelines Examination.

1. Code Compliance (10 Items)
2. Piping (28 Items)
3. Welding (6 Items)
4. Safety (6 Items)

Pipelines Reference Books

Code of Federal Regulations - 29 CFR Part 1926 (OSHA), with latest available amendments, U.S. Government Printing Office, (866) 512-1800 or https://www.osha.gov/laws-regs/regulations/standardnumber/1926
-OR- ***Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI***, with latest available amendments, (866) 589-3088, www.psionlinestore.com (See order form at the end of the Candidate Information Bulletin).

NFPA 30 - Flammable and Combustible Liquids Code, 2021 or 2024, National Fire Protection Association, (800) 344-3555, www.nfpa.org

ASME B31.8 - Gas Transmission and Distribution Piping Systems, 2014, 2018, or 2024, American Society of Mechanical Engineers, contractorcampus.com/r44.html or www.asme.org

Pipefitter's Handbook, 1967, 3rd Edition, Forest R. Linsey, Industrial Press, Inc., 200 Madison Avenue, New York, NY 10016

Pipe Welding Procedures, 1973, H. Rampaul, Industrial Press, Inc., 200 Madison Avenue, New York, NY 10016

South Carolina 811 Excavator Manual, latest edition.

PRE-ENGINEERED METAL BUILDINGS EXAMINATION CONTENT OUTLINE

There are 40 questions in this examination. You will need to answer 28 questions correctly in order to pass. You are allowed 3 hours to complete this examination. **NOTE:** All Pre-Engineered Metal Buildings - Commercial Contractor candidates are required to pass the Business Management and Law for Contractors Examination and the Pre-Engineered Metal Buildings Examination.

1. Sitework (3 Items)
2. Concrete (4 Items)
3. Concrete - Framework (4 Items)
4. Concrete - Reinforcement (4 Items)
5. Masonry - (4 Items)
6. Metal - Structural Framing (10 Items)
7. Insulation (3 Items)
8. Metal - Siding and Roofing (4 Items)
9. Safety (4 Items)

Pre-Engineered Metal Buildings Reference Books

2021 International Building Code with SC modifications; or the 2018 South Carolina Building Code, International Code Council, 800-786-4452, shop.iccsafe.org

Code of Federal Regulations - 29 CFR Part 1926 (OSHA), with latest available amendments, U.S. Government Printing Office, (866) 512-1800 or https://www.osha.gov/laws-regs/regulations/standardnumber/1926
-OR- ***Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI***, with latest available amendments, (866) 589-3088, www.psionlinestore.com (See order form at the end of the Candidate Information Bulletin).

Metal Building Systems Manual, 2012, Metal Building Manufacturers Association, 1300 Summer Ave, Cleveland OH 44115, www.mbma.com

ASTM C 754 - Standard Specification for Installation of Steel Framing Members to Receive Screw-Attached Gypsum Panel Products, 2011, American Society for Testing & Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959

ASTM C 1007 - Standard Specification for Installation of Load Bearing (Transverse and Axial) Steel Studs and Related Accessories, 2011, American Society for Testing & Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959

The Contractor's Guide to Quality Concrete Construction, 2005, 3rd Edition, American Concrete Institute, (248) 848-3700, www.concrete.org

Energy Design Guidelines for Metal Building Systems, 2010, Metal Building Manufacturers Association, 1300 Summer Ave, Cleveland OH 44115, www.mbma.com

Specifications for Structural Joints Using High-Strength Bolts; Research Council on Structural Connections, 2009 http://www.boltcouncil.org/files/2009RCSCSpecification.pdf

South Carolina 811 Excavator Manual, latest edition.

PRESSURE AND PROCESS PIPING EXAMINATION CONTENT OUTLINE

There are 50 questions in this examination. You will need to answer 35 questions correctly in order to pass. You are allowed 2 hours to complete this examination. **NOTE:** All Pressure & Process Piping - Commercial Contractor candidates are required to pass the Business Management and Law for Contractors Examination and the Pressure & Process Piping Examination.

1. Joining Methods (10 Items)
2. Pipe Fitting (7 Items)
3. Safety (7 Items)
4. Reading Drawings (2 Items)
5. Codes (5 Items)
6. Materials and Components (8 Items)
7. Process Equipment (4 Items)
8. Insulation (2 Items)
9. Pipe Supports (3 Items)
10. Line Labeling (2 Items)

Pressure and Process Piping Reference Books

ASME A13.1: Scheme for the Identification of Piping Systems, 2007, American Society of Mechanical Engineers Three Park Avenue, New York, NY 10065 (800) 843-2763 www.asme.org

ASME B31.1-2024 Power Piping, ASME Code for Pressure Piping, 2024, American Society of Mechanical Engineers Three Park Avenue, New York, NY 10065 (800) 843-2763 www.asme.org

ASME B31.3-2024 Process Piping, 2024 , ASME American Society of Mechanical Engineers Three Park Avenue, New York, NY 10065 (800) 843-2763 www.asme.org

Facility Piping Systems Handbook, 2010, www.mcgrawhill.com

Modern Welding, 12th Edition, Althouse, Turnquist,

Bowditch, Bowditch, The Goodheart-Willcox Company, Inc.,

18604 West Creek Dr., Tinley Park, IL 60477-6243, 1-800-323-0440, www.goodheartwillcox.com

Pipefitters Handbook, 1967, Forrest R. Lindsey, Industrial Press 200 Madison Avenue, New York, NY 10016 8885287852 http://www.industrialpress.com/

Code of Federal Regulations - 29 CFR Part 1926 (OSHA), with latest available amendments, U.S. Government Printing Office, (866) 512-1800 or https://www.osha.gov/laws-regs/regulations/standardnumber/1926
-OR- ***Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI***, with latest available amendments, (866) 589-3088, www.psionlinestore.com (See order form at the end of the Candidate Information Bulletin).

South Carolina 811 Excavator Manual, latest edition.

PUBLIC ELECTRICAL UTILITY EXAMINATION CONTENT OUTLINE

There are 50 questions in this examination. You will need to answer 35 questions correctly in order to pass. You are allowed 3 hours to complete this examination. **NOTE:** All Public Electrical Utility - Commercial Contractor candidates are required to pass the Business Management and Law for Contractors Examination and the Public Electrical Utility Examination.

The holder of this license may perform only work limited to line construction, including distribution systems, and their allied work, for public and private companies; installation, maintenance repair of all high voltage cable splicing and pulling wire for all systems in excess of 2,400 volts; traffic signal and highway lighting installation, maintenance and repair.

10. Transformers (6 Items)
11. Electrical Knowledge (5 Items)
12. Conductors (5 Items)
13. Overhead Lines (7 Items)
14. Underground Lines (4 Items)
15. Equipment and Safety (8 Items)
16. Grounding Methods (3 Items)
17. Service Drops and Laterals (4 Items)
18. Poles and Structures (4 Items)
19. Electric Supply Stations (4 Items)

Public Electrical Utility Electrical Reference Books

National Electrical Safety Code (C2-1997), Institute of Electrical Electronics Engineers, Inc., 345 East 47th Street, New York, NY 10017-2394

2020 National Electrical Code (NEC) with SC modifications or National Electrical Code Handbook, 2020 edition

Code of Federal Regulations - 29 CFR Part 1926 (OSHA), with latest available amendments, U.S. Government Printing Office, (866) 512-1800 or https://www.osha.gov/laws-regs/regulations/standardnumber/1926
-OR- ***Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI***, with latest available amendments, (866) 589-3088, www.psionlinestore.com (See order form at the end of the Candidate Information Bulletin).

Lineman's and Cableman's Handbook, Shoemaker and Mack, 12th or 14th editions, www.amazon.com.

American Electricians' Handbook, Croft, Hartwell, and Summers, 16th Edition, 2013, McGraw-Hill, (800) 262-4729

South Carolina 811 Excavator Manual, latest edition.

REFRIGERATION EXAMINATION CONTENT OUTLINE

There are 50 questions in this examination. You will need to answer 35 questions correctly in order to pass. You are allowed 3 hours to complete this examination. **NOTE:** All Refrigeration - Commercial Contractor candidates are required to pass the Business Management and Law for Contractors Examination and the Refrigeration Examination.

1. Code Compliance (7 Items)
2. HARV General (11 Items)
3. HARV Maintenance (8 Items)
4. HARV Controls (8 Items)
5. Piping - General (3 Items)
6. Piping - Dimensioning and Design (9 Items)
7. Safety (4 Items)

Refrigeration Reference Books

2021 International Mechanical Code with SC modifications; or 2018 South Carolina Mechanical Code, International Code Council, 800-786-4452, shop.iccsafe.org

Code of Federal Regulations - 29 CFR Part 1926 (OSHA), with latest available amendments, U.S. Government Printing Office, (866) 512-1800 or https://www.osha.gov/laws-regs/regulations/standardnumber/1926
-OR- ***Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI***, with latest available amendments, (866) 589-3088, www.psionlinestore.com (See order form at the end of the Candidate Information Bulletin).

Pipefitter's Handbook, 1967, 3rd Edition, Forest R. Linsey, Industrial Press, Inc., 200 Madison Avenue, New York, NY 10016

System Design Manual - Part III: Piping Design, Carrier, 1960, Carrier Air Conditioning Company, Carrier Parkway, Literature Distribution, Bldg. 8, PO Box 4808, Syracuse, NY 13221

Modern Refrigeration and Air Conditioning, 21st or 22nd edition, Goodheart-Wilcox Company, www.g-w.com

2.1. ***Refrigeration and Air Conditioning Technology***, 6th edition, 2009, Whitman/Johnson/Tomczyk/Silberstein, Cengage Learning, www.cengage.com

2.2. ***Trane Air Conditioning Manual***, 1996, TRANE Company, 8929 Western Way, Suite 1, Jacksonville, FL 32256

2.3. ***ASHRAE Handbook of Fundamentals***, 1997 American Society of Heating, Refrigeration, and Air Conditioning Engineers, 1791 Tullie Circle, Atlanta, GA 30329

South Carolina 811 Excavator Manual, latest edition.

ROOFING EXAMINATION CONTENT OUTLINE

There are 65 questions in this examination. You will need to answer 46 questions correctly in order to pass. You are allowed 3 hours to complete this examination. **NOTE:** All Roofing - Commercial Contractor candidates are required to pass the Business Management and Law for Contractors Examination and the Roofing Examination.

1. Safety (5 Items)
2. Roofing - Substrate (8 Items)
3. Roofing - Steep (22 Items)
4. Roofing – Metal Panel (6 Items)
5. Roofing – Metal Flashing (8 Items)
6. Roofing Repairs (4 Items)
7. Roofing - Elastomeric (6 Items)
8. Roofing - Built - up Bituminous (6 Items)

Roofing Reference Books

Roofing Construction and Estimating, Daniel Atcheson, 1995 (any printing), Craftsman Book Company, (800) 829-8123, www.craftsman-book.com/products

2021 International Building Code with SC modifications or the 2018 South Carolina Building Code, International Code Council, 800-786-4452, shop.iccsafe.org

NRCA Roofing Manual: Steep Slope Roof Systems, 2025, The National Roofing Contractors Association, (847) 299-9070, www.nrca.net

NRCA Roofing Manual: Metal Panel and SPF Roof Systems, 2024, The National Roofing Contractors Association, (847) 299-9070, www.nrca.net

NRCA Roofing Manual: Membrane Roofing Systems, 2023, The National Roofing Contractors Association, (847) 299-9070, www.nrca.net

NRCA Roofing Manual: Architectural Metal Flashing, Condensation Control and Reroofings, 2022, The National Roofing Contractors Association, (847) 299-9070, www.nrca.net

Code of Federal Regulations - 29 CFR Part 1926 (OSHA), with latest available amendments, U.S. Government Printing Office, (866) 512-1800 or https://www.osha.gov/laws-regs/regulations/standardnumber/1926
-OR- ***Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI***, with latest available amendments, (866) 589-3088, www.psionlinestore.com (See order form at the end of the Candidate Information Bulletin).

STRUCTURAL FRAMING EXAMINATION CONTENT OUTLINE

There are 50 questions in this examination. You will need to answer 35 questions correctly in order to pass. You are allowed 2 hours to complete this examination. **NOTE:** All Structural Framing - Commercial Contractor candidates are required to pass the Business Management and Law for Contractors Examination and the Structural Framing Examination.

1. Safety (4 Items)
2. Welding (12 Items)
3. Structural Steel - Bolting (4 Items)
4. Metal - Joists (13 Items)
5. Rigging (8 Items)
6. Structural Steel (9 Items)

Structural Framing Reference Books

2021 International Building Code with SC modifications; or the 2018 South Carolina Building Code, International Code Council, 800-786-4452, shop.iccsafe.org

Code of Federal Regulations - 29 CFR Part 1926 (OSHA), with latest available amendments, U.S. Government Printing Office, (866) 512-1800 or https://www.osha.gov/laws-regs/regulations/standardnumber/1926
-OR- ***Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI***, with latest available amendments, (866) 589-3088, www.psionlinestore.com (See order form at the end of the Candidate Information Bulletin).

Technical Digest No. 9 – Handling and Erection of Steel Joists and Joist Girders, 3rd Edition, 2008 or 2025, Steel Joint Institute, 234 W. Cheves Street, Florence, SC 29501, Phone: (843) 407-4091, Fax (843) 407-4044, https://steeljoist.org/product/td9-handling-and-erection-of-steel-joists-and-joist-girders/

Code of Standard Practice for Steel Buildings and Bridges, 2022, American Institute of Steel Construction, PO Box 806276, Attn: Publication Department, Chicago, IL 60680-4124, https://www.aisc.org/globalassets/aisc/publications/standards/a303-22w.pdf

Modern Welding, 11th Edition, 2013, Althouse, Turnquist, Bowditch & Bowditch, Goodheart-Wilcox Company, Inc., 18604 W. Creek Drive, Tinley Park, IL 60477-6243

Manual of Steel Construction, 15th Edition, American Institute of Steel Construction, PO Box 806276, Attn: publication Department, Chicago, IL 60680-41, https://www.aisc.org/products/publication/manuals/manual-15/steel-construction-manual-15th-ed-print/

SWIMMING POOL EXAMINATION CONTENT OUTLINE

There are 50 questions in this examination. You will need to answer 35 questions correctly in order to pass. You are allowed 3 hours to complete this examination. **NOTE:** All Swimming Pool - Commercial Contractor candidates are required to pass the Business Management and Law for Contractors Examination and the Swimming Pool Examination.

1. Pool - Electrical (6 Items)
2. Shotcrete (8 Items)
3. Concrete (6 Items)
4. Concrete - Reinforcing Steel (6 Items)
5. Pool - Care and Operation (12 Items)
6. Regulation 61-51: Swimming pools (8 Items)
7. Pool - Estimating (4 Items)

Swimming Pool Reference Books

Guide to Shotcrete, 2016 or 2022, American Concrete Institute, 248-848-3700, www.concrete.org

Design and Control of Concrete Mixtures, 16th Edition, 2016, S.H. Kosmatka and W.C. Panarese, Portland Cement Association, 5420 Old Orchard Road, Skokie, IL 60077-1083, 847-966-6200, https://www.concrete.org/store/productdetail.aspx?ItemID=50616&Language=English&Units=US_AND_METRIC

Placing Reinforcing Bars, Recommended Practices, 10th Edition, 2019 or later printing, Concrete Reinforcing Steel Institute, (800) 328-6306, www.crsi.org

Public Swimming Pools, Regulation 61-51, 2023, South Carolina Department of Health, South Carolina Department of Health and Environmental Control, Bureau of Drinking Water, 2600 Bull Street, Columbia, SC 29201, https://scdhec.gov/sites/default/files/Library/Regulations/R.61-51.pdf

Certified Pool-Spa Operators Handbook, 2022, National Swimming Pool Foundation, 10803 Gulfdale Suite 300, San Antonio, TX 78216, (516) 623-3447, available from several internet vendors including Amazon, https://www.amazon.com/Pool-Spa-Operator-Handbook-2022/dp/B0B3GR56DZ

Public Swimming Pools, Regulation 61-51, 2023, South Carolina Department of Health, South Carolina Department of Health and Environmental Control, Bureau of Drinking Water, 2600 Bull Street, Columbia, SC 29201, https://scdhec.gov/sites/default/files/Library/Regulations/R.61-51.pdf

2020 National Electrical Code (NEC) with SC modifications or National Electrical Code Handbook, 2020 edition, (The examination covers only Article 680)

South Carolina 811 Excavator Manual, latest edition.

International Swimming Pool and Spa Code, 2021. International Code Council, 800-786-4452, shop.iccsafe.org

WATER AND SEWER LINES EXAMINATION CONTENT OUTLINE

There are 50 questions in this examination. You will need to answer 35 questions correctly in order to pass.

You are allowed 3 hours to complete this examination. **NOTE:** All Water & Sewer - Commercial Contractor candidates are required to pass the Business Management and Law for Contractors Examination and the Water and Sewer Examination.

1. Safety - Code of Federal Regulations (6 Items)
2. General Knowledge (7 Items)
3. Miscellaneous Engineering - Design Elevations (7 Items)
4. Underground Utilities - Concrete Pipe Installation (12 Items)
5. Underground Utilities - Ductile Pipe Installation (14 Items)
6. Excavating and Grading (4 Items)

Water and Sewer Lines Reference

Code of Federal Regulations - 29 CFR Part 1926 (OSHA), with latest available amendments, U.S. Government Printing Office, (866) 512-1800 or https://www.osha.gov/laws-regs/regulations/standardnumber/1926
-OR- ***Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI***, with latest available amendments, (866) 589-3088, www.psionlinestore.com (See order form at the end of the Candidate Information Bulletin).

DIPRA Installation Guide for Ductile Iron Pipe, 2007 (revised 2021), Ductile Iron Pipe Research Association, https://assets.ctfassets.net/e4roza01bro8/3tMZfIf5PfbPvvlWMWrF2g/8fd3a598aaa124d5ae0ac153c6aa92d5/Ductile_Iron_Pipe_Installation_Guide__English_.pdf

Concrete Pipe & Box Culvert, American Concrete Pipe Association, 683 Grigsby Way, Cedar Hill, TX 75104, https://9491265.fs1.hubspotusercontent-na1.net/hubfs/9491265/Resources/ACPA/Website/Concrete-Pipe-and-Box-Culvert-Installation-Manual.pdf?__hstc=12570091.8502ced2f32d9940c575741bb9eacc76.1687962611338.1687962611338.1687962611338.1&__hssc=12570091.1.1687962611338&__hsfp=2908103669&hsCtaTracking=42b211ee-e92c-46b9-aebf-541cf2e8f94f%7C0748c533-0289-4109-bab2-1620d021f4e3

Excavation and Grading Handbook, 2006, Craftsman Book Company, PO Box 6500, Carlsbad, CA 92018

South Carolina 811 Excavator Manual, latest edition.

WATER AND SEWER PLANTS EXAMINATION CONTENT OUTLINE

There are 50 questions in this examination. You will need to answer 35 questions correctly in order to pass. You are allowed 3 hours to complete this examination. **NOTE:** All Water and Sewer Plants - Commercial Contractor candidates are required to pass the Business Management and Law for Contractors Examination and the Water and Sewer Plants Examination.

1. Safety - Code of Federal Regulations (4 Items)
2. General Plant Construction (20 Items)
3. Concrete (6 Items)
4. Concrete - Reinforcing Steel (6 Items)
5. Excavating and Grading (8 Items)
6. Miscellaneous Engineering - Design Elevations (6 Items)

Water & Sewer Plants Reference Books

Code of Federal Regulations - 29 CFR Part 1926 (OSHA), with latest available amendments, U.S. Government Printing Office, (866) 512-1800 or https://www.osha.gov/laws-regs/regulations/standardnumber/1926
-OR- ***Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI***, with latest available amendments, (866) 589-3088, www.psionlinestore.com (See order form at the end of the Candidate Information Bulletin).

Design and Control of Concrete Mixtures, 17th Edition, S.H. Kosmatka and W.C. Panarese, Portland Cement Association, 5420 Old Orchard Road, Skokie, IL 60077-1083, 847-966-6200, https://www.cement.org/learn/concrete-technology/concrete-design-production/design-and-control-mixtures-landing-page

Placing Reinforcing Bars, Recommended Practices, 10th Edition, 2019 or later printing, Concrete Reinforcing Steel Institute, (800) 328-6306, www.crsi.org

Excavation and Grading Handbook, 2006, Craftsman Book Company, PO Box 6500, Carlsbad, CA 92018

DIPRA Installation Guide for Ductile Iron Pipe, 2007 (revised 2021), Ductile Iron Pipe Research Association, https://assets.ctfassets.net/e4roza01bro8/3tMZfIf5PfbPvvlWMWrF2g/8fd3a598aaa124d5ae0ac153c6aa92d5/Ductile_Iron_Pipe_Installation_Guide__English_.pdf

South Carolina 811 Excavator Manual, latest edition.

WOOD FRAME STRUCTURES EXAMINATION CONTENT OUTLINE

There are 50 questions in this examination. You will need to answer 35 questions correctly in order to pass. You are allowed 3 hours to complete this examination. **NOTE:** All Wood Frame Structures - Commercial Contractor candidates are required to pass the Business Management and Law for Contractors Examination and the Wood Frame Structures Examination.

1. Safety (5 Items)
2. Concrete - Earthwork (7 Items)
3. Concrete (9 Items)
4. Carpentry - Rough (16 Items)
5. Carpentry - Manufactured Trusses (6 Items)
6. Roofing (7 Items)

Wood Frame Structures Reference Books

2021 International Building Code with SC modifications; or the 2018 South Carolina Building Code, International Code Council, 800-786-4452, shop.iccsafe.org

Code of Federal Regulations - 29 CFR Part 1926 (OSHA), with latest available amendments, U.S. Government Printing Office, (866) 512-1800 or https://www.osha.gov/laws-regs/regulations/standardnumber/1926
-OR- ***Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI***, with latest available amendments, (866) 589-3088, www.psionlinestore.com (See order form at the end of the Candidate Information Bulletin).

Carpentry and Building Construction, 2016 (Student Edition), John L. Feirer and Mark D. Feirer, McGraw-Hill

BCSI: Guide to Good Practice for Handling, Installing, Restraining, and Bracing of Metal Plate Connected Wood Trusses, 2018 (Updated March 2020), Structural Building Components Association and Truss Plate Institute, (608) 274-4849, https://www.sbcindustry.com/building-component-safety-information-bcsi

South Carolina 811 Excavator Manual, latest edition

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- **Call the PSI Online store toll-free at (866) 589-3088**

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☐	Standard Specifications for Highway Construction Selections as of 2007 by PSI
☐	NFPA 72 - National Fire Alarm Code
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☐	Fire Alarm Signaling Systems
☐	Carpentry and Building Construction
☐	Contractors Guide to Business, Law and Project Management – South Carolina
☐	Contractors Guide to Business, Law and Project Management - Basic Edition
☐	Modern Refrigeration and Air Conditioning
☐	Excavation & Grading Handbook Revised
☐	Roofing Construction & Estimating
☐	Modern Masonry - Brick, Block, Stone
☐	Pipe & Excavation Contracting
☐	Design and Control of Concrete Mixtures, 15th Edition
☐	Diseño y Control de Mezclas de Concreto
☐	Modern Welding
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