



PSI Services LLC

<https://test-takers.psiexams.com/tncon>

TENNESSEE BOARD FOR LICENSING CONTRACTORS



TENNESSEE CONTRACTORS CANDIDATE INFORMATION BULLETIN

CONTENT OUTLINE

Examinations by PSI	2	Business and Law	7
Examination Fees	2	*CMC-A - Mechanical Plumbing	8
Examination Scheduling	3	BC - Combined - Residential/Commercial/ Industrial Contractor	9
Internet Registration	3	BC-A - Residential Contractor.....	10
Telephone Registration	5	BC-B - Commercial Contractor.....	11
Scheduling an Examination.....	5	BC-b - Small Commercial Contractor	12
Reregistering for an Examination	5	BC-C - Industrial Contractor.....	13
Canceling and Rescheduling an Examination	5	BC-A, B - Combined - Residential/ Commercial Contractor	14
Missed Appointment or Late Cancellation	5	BC-A, b (sm) - Combined- Residential/Small Commercial Contractor	15
Exam Accommodation	5	BC-B, C - Combined - Commercial/Industrial Contractor	16
Examination Site Closing for an Emergency	5	CE - Electrical Contractor	17
Social Security Number Confidentiality	5	*CMC - Full Mechanical Contractor	17
Examination Site Locations.....	5	CMC-C - Mechanical - HVAC/Refrigeration Contractor	18
Reporting to the Examination Site	6	CMC-D - Mechanical - Fire Sprinklers and Fire Protection Contractor.....	19
Required Identification at the Examination Site	6	CE-A, H - High Voltage Electrical Contractor	20
Security Procedures	6	LMC - Licensed Masonry Contractor	21
Taking the Examination by Computer	7	PSI Online Book Store.....	21
Score Reporting	7		
Description of Exam	7		

Be sure to review this entire Candidate Information Bulletin for complete information about the scheduling, testing and licensing processes. Please refer to our website to check for the most updated information at <https://test-takers.psiexams.com/tncon>.

EXAMINATIONS BY PSI

This Candidate Information Bulletin provides you with information about the examination and application process for a Limited Licensed Electrician (LLE) licensee in the State of Tennessee.

Tennessee State Laws stipulate that a person may not act as a contractor with the LLE license.

The Tennessee Board for Licensing Contractors, Limited Licensed Electrician Division, has contracted with PSI to conduct the examination program. PSI provides examinations through a network of computer examination centers in Tennessee. PSI works closely with the State to be certain that examinations meet local as well as national requirements in basic principles and examination development standards.

CONTACT INFORMATION

All questions and requests for information pertaining to the **examination** should be directed to PSI.

PSI
(855) 868-1882
<https://test-takers.psiexams.com/tncon>

All questions and requests for information pertaining to **licensure** should be directed to the Tennessee Board for Licensing Contractors.

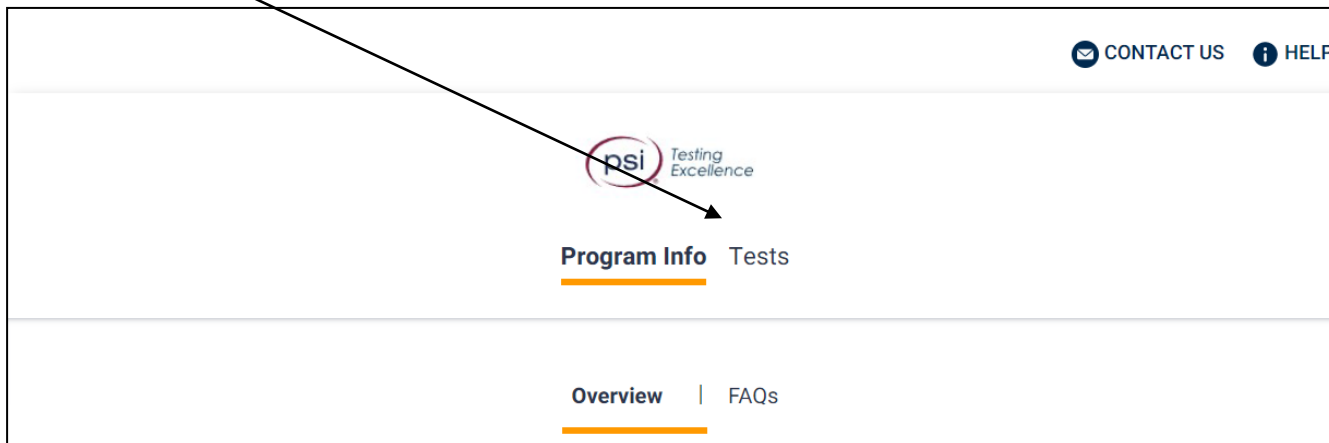
Tennessee Board for Licensing Contractors - LLE
500 James Robertson Parkway
Nashville, TN 37243-1150
(615) 253-2144 or Fax (615) 532-2868
tn.gov/commerce/boards/contractors

Examination	Fee
<input type="checkbox"/> Business & Law ONLY	\$57
BC - COMBINED - RESIDENTIAL/COMMERCIAL/INDUSTRIAL CONTRACTOR	
<input type="checkbox"/> Trade Portion	\$57
<input type="checkbox"/> Business & Law	\$57
BC-A - RESIDENTIAL CONTRACTOR	
<input type="checkbox"/> Trade Portion	\$57
<input type="checkbox"/> Business & Law	\$57
BC-B - COMMERCIAL CONTRACTOR	
<input type="checkbox"/> Trade Portion	\$57
<input type="checkbox"/> Business & Law	\$57
BC-b - SMALL COMMERCIAL CONTRACTOR	
<input type="checkbox"/> Trade Portion	\$57
<input type="checkbox"/> Business & Law	\$57
BC-C - INDUSTRIAL CONTRACTOR	
<input type="checkbox"/> Trade Portion	\$57
<input type="checkbox"/> Business & Law	\$57
BC-A, B - COMBINED - RESIDENTIAL/COMMERCIAL CONTRACTOR	
<input type="checkbox"/> Trade Portion	\$57
<input type="checkbox"/> Business & Law	\$57
BC-A, b (sm) - COMBINED- RESIDENTIAL/SMALL COMMERCIAL CONTRACTOR	
<input type="checkbox"/> Trade Portion	\$57
<input type="checkbox"/> Business & Law	\$57
BC-B, C - COMBINED - COMMERCIAL/INDUSTRIAL CONTRACTOR	
<input type="checkbox"/> Trade Portion	\$57
<input type="checkbox"/> Business & Law	\$57
CE - ELECTRICAL CONTRACTOR	
<input type="checkbox"/> Trade Portion	\$57
<input type="checkbox"/> Business & Law	\$57
CE-A, H - HIGH VOLTAGE ELECTRICAL CONTRACTOR	
<input type="checkbox"/> Trade Portion	\$57
<input type="checkbox"/> Business & Law	\$57
*CMC - FULL MECHANICAL CONTRACTOR	
<input type="checkbox"/> Trade Portion *Must have pre-approval	\$57
<input type="checkbox"/> Business & Law	\$57
*CMC-A - MECHANICAL PLUMBING CONTRACTOR	
<input type="checkbox"/> Trade Portion *Must have pre-approval	\$57
<input type="checkbox"/> Business & Law	\$57
CMC-C - MECHANICAL - HVAC/REFRIGERATION CONTRACTOR	
<input type="checkbox"/> Trade Portion	\$57
<input type="checkbox"/> Business & Law	\$57
CMC-D - MECHANICAL - FIRE SPRINKLERS AND FIRE PROTECTION CONTRACTOR	
<input type="checkbox"/> Trade Portion	\$57
<input type="checkbox"/> Business & Law	\$57
LMC - LICENSED MASONRY CONTRACTOR	
<input type="checkbox"/> Trade Portion	\$57
<input type="checkbox"/> Business & Law	\$57
<input type="checkbox"/> NASCLA Commercial Building Contractor Examination	\$125
<input type="checkbox"/> NASCLA Accredited Trade Examination for Electrical Contractors	\$125

NOTE: EXAMINATION FEES ARE NOT REFUNDABLE OR TRANSFERABLE. Your examination fee will be forfeited if you do not test within 1 year of the date your examination fee is received by PSI.

For the fastest and most convenient examination scheduling process, register for your examinations online by accessing PSI's registration Website: [Click Here](#) or on the email confirmation you received from PSI.

1. Select **TESTS** to create an account.



2. Select the examination and you are ready to create an account. Select **LOGIN/REGISTER**.

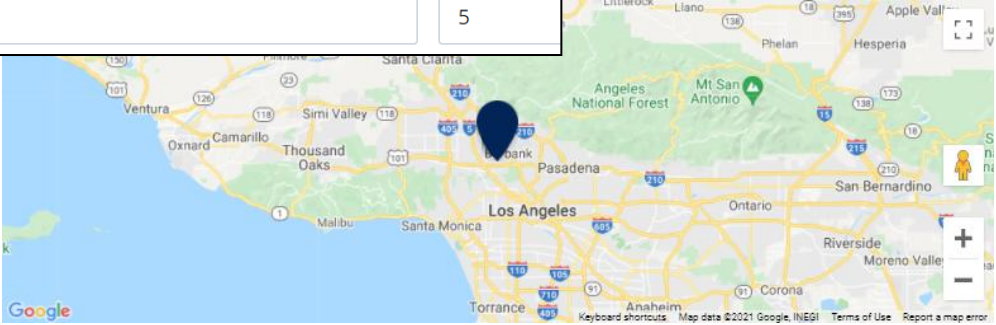
To continue the booking process and schedule your test, you must login or create an account. [LOGIN/REGISTER](#)

3. You will be prompted to **CREATE AN ACCOUNT** with PSI.
The first and last name must match exactly with your current, valid, government-issued ID.

<input type="text" value="ID *"/>	
<input type="text" value="First Name *"/>	<input type="text" value="Last Name *"/>
<input type="text" value="Middle Name"/>	<input type="text" value="Generation"/>
<input type="text" value="Email *"/>	
<input type="text" value="Password *"/>	Your password must contain: <ul style="list-style-type: none">• At least one capital letter A-Z• At least one lower case letter a-z• At least one number 0-9• At least one special character !@#V\$%V^&V*• At least 8 and up to 32 characters
<input type="text" value="Confirm Password *"/>	

4. Enter the “City or Postal Code” and select **FIND**.

Search Test Center Location



5. Select a date and time to book an appointment.

Choose a Date and Time

October 2021

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

Available Selected

Time slots available for October 08, 2021

6. You are now ready to pay.

Payment

Billing Address


Order Summary

Commercial Contractor Practice Test
Mechanical Bus and Law \$100.00 USD

Total Price

CONTINUE

7. Once payment has been made you will receive a message confirming the test center, booked date, and booked time.

Booking Confirmed!!  [Print Confirmation](#)

Email Address: asingla81@psionline.com Home Phone: 111224444 Office Phone: 2221112345

TELEPHONE REGISTRATION

For telephone registration, you will need a valid credit card (Visa, MasterCard, American Express or Discover).

PSI registrars are available at (855) 868-1882, Monday through Friday between 6:30 am and 9:00 pm, and Saturday-Sunday between 8:00 am and 4:30 pm, Central Time, to receive your payment and schedule your appointment for the examination.

SCHEDULING AN APPOINTMENT TO TAKE THE EXAMINATION

You are responsible for contacting PSI to schedule an appointment to take the examination. PSI will make every effort to schedule the examination site location and time that is most convenient for you. To schedule with a PSI registrar, call (855) 868-1882, Monday through Friday between 6:30 am and 9:00 pm, or Saturday-Sunday between 8:00 am and 4:30 pm, Central Time. If space is available in the examination site of your choice, you may schedule an examination 1 day prior to the examination date of your choice, up to 6:00 p.m., Central Time. Please be prepared to offer alternate examination appointment choices.

REREGISTERING FOR AN EXAMINATION

It is not possible to make a new examination appointment on the same day you have taken an examination; this is due to processing and reporting scores. A candidate who tests unsuccessfully on a Monday can call the next day, Tuesday, and retest as soon as Wednesday, depending upon space availability. You may access a registration form at <https://test-takers.psiexams.com/tcon>. You may also call PSI at (855) 868-1882.

CANCELING AND RESCHEDULING AN EXAMINATION 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*. You may use the PSI Website or call PSI at (855) 868-1882, Monday through Friday, between 6:30 am and 7:00 pm or Saturday, between 10:00 am and 4:00 pm, Central Time.

Note: A voicemail 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, 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 scheduled examination date;
- Do not appear for your examination appointment;
- Arrive after examination start time; or
- Do not present proper identification when you arrive for the examination.

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](#).

Candidates granted accommodation in accordance with the ADA, **MUST** schedule their examination by telephone and speak directly with a PSI registrar.

You will need to fill this out if requesting to test out of state.

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) 868-1882. Every effort will be made to reschedule your examination at a convenient time as soon as possible.

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.

EXAMINATION SITE LOCATIONS

The examinations are administered at the examination centers listed below:

Chattanooga
6918 Shallowford Rd, Suite 314
Chattanooga, TN 37421

Jackson
368 North Parkway, #3
Jackson, TN 38305

Johnson City
904 Sunset Drive, Ste 7A
Johnson City, TN 37604

Knoxville
301 South Gallaher View Rd, Suite 114
Knoxville, TN 37919

Memphis - Lab Four Professional Development Center
1255 Lynnfield Road, Suite 160
Memphis, TN 38119

Nashville
The Oaks
1102 Kermit Drive, Suite 101
Nashville, TN 37217

Additionally, PSI has examination centers in many other regions across the United States. You may take the written examination at any of these locations by following the instructions under Exam Accommodations on the previous page.

REPORTING TO THE EXAMINATION SITE

On the day of the examination, you should arrive at least 30 minutes prior to your scheduled appointment time. This allows time for the sign-in and identification verification procedure as well as providing time to familiarize yourself with the examination process. *If you arrive late, you will not be admitted to the examination site and you will forfeit your examination registration fee.*

REQUIRED IDENTIFICATION AT EXAMINATION SITE

You must provide 1 form of identification. The identification must match the name you scheduled with.

NOTE: ID must contain candidate's signature, photo, be valid and unexpired.

- State issued driver's license
- State issued identification card
- US Government Issued Passport
- US Government Issued Military Identification Card (not allowed for remote testing)
- US Government Issued Alien Registration Card
- Canadian Government Issued ID

ALERT* Identification must be a permanent physical card (not a paper or temporary version). **PSI does NOT accept paper or temporary driver's licenses as valid identification for test admission, even if they are issued by a government agency and meet state-level standards.**

Failure to bring the proper documentation invalidates your registration. You will not be able to take the examination as scheduled, and you will forfeit your examination fee.

SECURITY PROCEDURES

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, hoodies, 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.

Management	
Tax Laws	5
Labor Laws	5
Project Management and Lien Law	6
Contracts	6
Risk Management	4
Environmental and Safety	5

TAKING THE EXAMINATION BY COMPUTER

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

[Click here for the Tutorial in English](#)

SCORE REPORTING

Your score will be displayed on screen at the end of the examination and a score report will be emailed to you. If you fail, the emailed score report will include the diagnostic report indicating your strengths and weaknesses by examination type.

You may print the score report from your online account.

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.

DESCRIPTION OF EXAMINATION

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 override information from other sources or persons.

BUSINESS AND LAW MANAGEMENT EXAMINATION

# of Questions	% Required to Pass	Time Allowed
50	73% (37 items)	140 minutes

CONTENT OUTLINE

Subject Area	# of Items
Licensing Requirements	5
Estimating and Bidding	7
Business Organization and Financial	7

REFERENCE LIST

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 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.

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

This examination is OPEN BOOK.

The following reference material is allowed in the examination center:

- Contractors' Guide to Business, Law and Project Management - Tennessee Edition, 4th Edition, National Association of State Contractor Licensing Agencies (NASCLA), (623) 587-9519, Fax (623) 587-9625, www.nascla.org, www.psiolinestore.com.*

Candidates are responsible for bringing their own references to the examination center. Reference materials may be highlighted, underlined, and/or indexed prior to the examination session. However, references may not be written in. Any candidate caught writing in the references during the examination will be reported to the Board. Furthermore, candidates are not permitted to bring in any additional papers (loose or attached) with their approved references. References may be tabbed/indexed with permanent tabs only. Temporary tabs, such as Post-It notes, are not allowed and must be removed from the reference before the exam will begin. Scratch paper will be provided for calculations. Candidates will NOT be permitted to remove from the examination room ANY material that has been written on. (This would include books).

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

CMC-A - MECHANICAL PLUMBING

IMPORTANT

Effective May 24, 2007, Senate Bill 0786 and HB 2122 requires plumbers to be pre-approved prior to taking CMCA (plumbing exam) and must show evidence of three (3) years' experience. You must complete the "Exam Approval Request" form found on the Boards website: tn.gov/commerce/boards/contractors and send to the Board office. Upon receipt, after the experience is confirmed,

your information will be electronically submitted to PSI, and you can then schedule for the examination.

# of Questions	% Required to Pass	Time Allowed
110	73% (81 items)	295 minutes

CONTENT OUTLINE

Subject Area	# of Items
General Knowledge and Math	14
General Requirements (not including Gas) - Administrative, Structural, Backflow, Materials and Supports, Joints and Connections, Storm Drains, Testing	10
Water Supply and Distribution	10
Fixtures, including Water Heaters	6
Drain, Waste, and Vent Systems, including Indirect and Special Waste	28
Traps, Cleanouts, and Interceptors	6
Isometric Analysis	20
Gas Appliances and Piping	12
OSHA Safety	4

REFERENCE LIST

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 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.

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:

- *International Plumbing Code*, 2021, International Code Council, (800) 786-4452, www.iccsafe.org.
- *International Fuel Gas Code*, 2021, International Code Council, (800) 786-4452, www.iccsafe.org.
- *Mathematics for Plumbers and Pipefitters*, Lee Smith, 8th Edition, 2013, www.cengage.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/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, <https://test-takers.psiexams.com/tncn>

Candidates are responsible for bringing their own references to the examination center. Reference materials may be highlighted, underlined, and/or indexed prior to the examination session. However, references

may not be written in. Any candidate caught writing in the references during the examination will be reported to the Board. Furthermore, candidates are not permitted to bring in any additional papers (loose or attached) with their approved references. References may be tabbed/indexed with permanent tabs only. Temporary tabs, such as Post-It notes, are not allowed and must be removed from the reference before the exam will begin. Scratch paper will be provided for calculations. Candidates will NOT be permitted to remove from the examination room ANY material that has been written on. (This would include books).

BC - COMBINED - RESIDENTIAL/COMMERCIAL/INDUSTRIAL CONTRACTOR

# of Questions	% Required to Pass	Time Allowed
100	73% (73 items)	300 minutes

CONTENT OUTLINE

Subject Area	# of Items
Sitework, Footings, and Foundation	10
Concrete and Concrete Reinforcement	15
Masonry	10
Carpentry	6
Metals	10
Roofing	6
Associated Trades	10
General Code, Plan Reading, and Estimating	27
OSHA Safety	6

REFERENCE LIST

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 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.

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

This examination is OPEN BOOK.

The following reference materials are allowed in the examination center:

- *International Building Code*, 2021, International Code Council, (800) 786-4452, www.iccsafe.org.
- *International Residential Code for One- and Two-Family Dwellings*, 2021, International Code Council, (800) 786-4452, www.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/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, <https://test-takers.psiexams.com/tncn>

- *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*, Daniel Atcheson, 2022, Craftsman Book Company, (800) 829-8123, www.craftsman-book.com/products
- *Modern Masonry - Brick, Block, Stone*, Clois E. Kicklighter, 2020 edition. The Goodheart-Willcox Company, (800) 323-0440, www.g-w.com.
- *Pipe and Excavation Contracting*, Dave Roberts, 2011, Craftsman Book Company, (800) 829-8123, www.craftsman-book.com/products
- *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://rsmeans.reedconstructiondata.com>
- *Technical Digest No. 9 - Handling and Erection of Steel Joists and Joist Girders*, 4th Edition, 2025, Steel Joint Institute, 234 W. Cheves Street, Florence, SC 29501, Phone: (843) 407-4091, www.steeljoist.org
- *SDI Manual of Construction with Steel Deck*, 2016, 3rd Edition, Steel Deck Institute, (847) 458-4647, <http://www.sdi.org/manuals.htm>
- *Placing Reinforcing Bars*, 2022 Edition, Concrete Reinforcing Steel Institute, (800) 328-6306, www.crsi.org
- *Design and Control of Concrete Mixtures*, Steven H. Kosmatka and William C. Panarese, 2021 Edition, Portland Cement Association, (847) 966-6200, www.cement.org
- *Training and Certification of Field Personnel for Unbonded Post-Tensioning - Level 1 Field Fundamentals*, 2003, 3rd Edition, Post-Tensioning Institute, (602) 870-7540, <http://post-tensioning.org/index.php>
- *Erectors' Manual - Standards and Guidelines for the Erection of PreCast Concrete Products*, 1999, 2nd Edition, Precast/Prestressed Concrete Institute (PCI), (312) 786-0300, www.pci.org
- *ACI 530/530.1-11 or ACI 530/530.1-13 (2011 or 2013): Building Code Requirements and Specification for Masonry Structures and Companion Commentaries*, American Concrete Institute, (248) 848-3700, www.concrete.org
- *ACI 318-11 or ACI 318-14 (2014 or 2019): Building Code Requirements for Structural Concrete and Commentary*, American Concrete Institute, (248) 848-3700, www.concrete.org

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the references during the examination will be reported to the Board. Furthermore, candidates are not permitted to bring in any additional papers (loose or attached) with their approved references. References may be tabbed/indexed with permanent tabs only. Temporary tabs, such as Post-It notes, are not allowed and must be removed from the reference before the exam will begin. Scratch paper will be provided for calculations. Candidates will NOT be permitted to remove from the examination room ANY material that has been written on. (This would include books).

BC-A - RESIDENTIAL CONTRACTOR

# of Questions	% Required to Pass	Time Allowed
100	73% (73 items)	300 minutes

CONTENT OUTLINE

Subject Area	# of Items
Sitework, Footings, and Foundation	10
Concrete and Concrete Reinforcement	10
Masonry	7
Carpentry	20
Roofing	10
Estimating, Plan Reading, and Gen Residential Code Requirements	20
Associated Trades	15
OSHA Safety	8

REFERENCE LIST

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 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.

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

This examination is OPEN BOOK.

The following reference materials are allowed in the examination center:

- *International Residential Code for One- and Two-Family Dwellings*, 2021, International Code Council, (800) 786-4452, www.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/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, <https://test-takers.psiexams.com/tncn>

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

# of Questions	% Required to Pass	Time Allowed
100	73% (73 items)	300 minutes

CONTENT OUTLINE

Subject Area	# of Items
Sitework, Footings, and Foundation	10
Concrete and Concrete Reinforcement	15
Masonry	10
Metals	10
Carpentry	6
OSHA Safety	6
General Code, Plan Reading, and Estimating	27
Associated Trades	10
Roofing	6

REFERENCE LIST

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BC-b - SMALL COMMERCIAL CONTRACTOR

# of Questions	% Required to Pass	Time Allowed
70	73% (52 items)	200 minutes

CONTENT OUTLINE

Subject Area	# of Items
Sitework, Footings, and Foundation	6
Concrete and Concrete Reinforcement	8
Masonry	6
Metals	12
Carpentry	6
Roofing	7
Associated Construction Trades	5
OSHA Safety	5
General Code, Plan Reading, and Estimating	15

REFERENCE LIST

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https://www.osha.gov/pls/oshaweb/owastand.display_standard_group?p_toc_level=1&p_part_number=1926

OR

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BC-C - INDUSTRIAL CONTRACTOR

# of Questions	% Required to Pass	Time Allowed
72	73% (53 items)	210 minutes

CONTENT OUTLINE

Subject Area	# of Items
Sitework, Footings, and Foundation	5
Concrete and Concrete Reinforcement	18
Masonry	6
Carpentry	4
Metals	13
Roofing	4
Associated Trades	4
OSHA Safety	5
General Code, Plan Reading, and Estimating	13

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BC-A, B - COMBINED - RESIDENTIAL/COMMERCIAL CONTRACTOR

# of Questions	% Required to Pass	Time Allowed
100	73% (73 items)	300 minutes

CONTENT OUTLINE

Subject Area	# of Items
Sitework, Footings, and Foundation	10
Concrete and Concrete Reinforcement	15
Masonry	10
Carpentry	6
Metals	10
Roofing	6
Associated Trades	10
General Code, Plan Reading, and Estimating	27
OSHA Safety	6

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BC-A, b (sm) - COMBINED- RESIDENTIAL/SMALL COMMERCIAL CONTRACTOR

# of Questions	% Required to Pass	Time Allowed
100	73% (73 items)	300 minutes

CONTENT OUTLINE

Subject Area	# of Items
Sitework, Footings, and Foundation	10
Concrete and Concrete Reinforcement	10
Metals	6
Masonry	7
Carpentry	17
Roofing	10
Estimating, Plan Reading, and Gen Residential Code Requirements	20
Associated Trades	12
OSHA Safety	8

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BC-B, C - COMBINED - COMMERCIAL/INDUSTRIAL CONTRACTOR

# of Questions	% Required to Pass	Time Allowed
100	73% (73 items)	300 minutes

CONTENT OUTLINE

Subject Area	# of Items
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Sitework, Footings, and Foundation	10
Concrete and Concrete Reinforcement	15
Metals	10
Masonry	10
Carpentry	6
OSHA Safety	6
General Code, Plan Reading, and Estimating	27
Associated Trades	10
Roofing	6

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CE - ELECTRICAL CONTRACTOR

# of Questions	% Required to Pass	Time Allowed
100	73% (73 items)	260 minutes

CONTENT OUTLINE

Subject Area	# of Items
General Knowledge and Electrical Installation Requirements	14
Building Code Requirements	5
Services, Feeders, and Branch Circuits	10
Overcurrent Protection	4
Grounding and Bonding	10
Conductors and Cables	8
Raceways and Boxes	8
Hazardous Locations, Special Occupancies, and Special Equipment	12
Low Voltage, Alarms, Signaling Systems, and Communications	7

Lighting, Signs and General Use Equipment	6
OSHA and NFPA 70E Safety	6
Motors, Transformers, and Generators	10

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REFERENCE LIST

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 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.

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:

- *NFPA 70 - National Electrical Code, 2017, National Fire Protection Association (NFPA), (800) 344-3555, www.nfpa.org.*
- *National Electrical Code (NEC) Handbook, 2017, National Fire Protection Association (NFPA), (800) 344-3555, www.nfpa.org.*
- *NFPA 70E - Standard for Electrical Safety in the Workplace, 2017, National Fire Protection Association (NFPA), (800) 344-3555, www.nfpa.org.*
- *NFPA 70E - Handbook for Electrical Safety in the Workplace, 2017, National Fire Protection Association (NFPA), (800) 344-3555, www.nfpa.org.*
- *International Building Code, 2021, International Code Council, (800) 786-4452, www.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/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, <https://test-takers.psiexams.com/tncon>**
- *Ugly's Electrical References, George V. Hart, 2008, 2011, 2014 or 2020, Jones and Bartlett, (800) 832-0034, www.uglys.net Starting 2/1/2021 the 2008 version will no longer be used.*

Candidates are responsible for bringing their own references to the examination center. Reference materials may be highlighted, underlined, and/or indexed prior to the examination session. However, references may not be written in. Any candidate caught writing in the references during the examination will be reported to the Board. Furthermore, candidates are not permitted to bring in any additional papers (loose or attached) with their approved references. References may be tabbed/indexed with permanent tabs only. Temporary tabs, such as Post-It notes, are not allowed and must be removed from the reference before the exam will begin.

*CMC - FULL MECHANICAL CONTRACTOR

IMPORTANT

Effective May 24, 2007, Senate Bill 0786 and HB 2122 requires plumbers to be pre-approved prior to taking CMC (plumbing exam) and must show evidence of three (3) years experience. You must complete the "Exam Approval Request" form found on the Boards website: tn.gov/commerce/boards/contractors, and send to the Board office. Upon receipt, after the experience is confirmed, your information will be electronically submitted to PSI, and you can then schedule for the examination.

# of Questions	% Required to Pass	Time Allowed
120	73% (88 items)	325 minutes

CONTENT OUTLINE

Subject Area	# of Items
Electrical Knowledge, Motors, and Controls	8
Piping - Refrigeration, Hydronic, Steam, and Process	10
Heating and Cooling Principles and Theory	5
Heating and Cooling Equipment and Components	10
Refrigerants and Refrigeration	10
Fuel and LP Gas	10
Combustion Air, Chimneys, Flues, and Vents	10
Ducts, Ventilation, and Exhaust	10
Plumbing	20
Load Calculation	5
Safety, Fire and Smoke Protection	12
Fire Sprinkler	10

REFERENCE LIST

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 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.

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:

CMC-C - MECHANICAL - HVAC/REFRIGERATION CONTRACTOR

# of Questions	% Required to Pass	Time Allowed
100	73% (73 items)	260 minutes

CONTENT OUTLINE

Subject Area	# of Items
Electrical Knowledge, Motors, and Controls	7
Piping - Refrigeration, Hydronic, Steam and Process	14
Heating and Cooling Principles and Theory	10
Heating and Cooling Equipment and Components	10
Refrigerants and Refrigeration	10
Fuel and LP Gas	10
Combustion Air, Chimneys, Flues and Vents	10
Ducts, Ventilation and Exhaust	14
Load Calculation	5
Safety, Fire and Smoke Protection	10

REFERENCE LIST

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 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.

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:

- *International Mechanical Code*, 2021, International Code Council, (800) 786-4452, www.iccsafe.org.
- *Manual J - Residential Load Calcs, reprinted 2016, Eighth Full Edition, Air Conditioning Contractors of America (ACCA)*, 2800 Shirlington Road, Suite 300. Arlington, VA 22206, (703) 575-4477, www.acca.org
- *International Fuel Gas Code*, 2021, International Code Council, (800) 786-4452, www.iccsafe.org.
- *Pipefitters Handbook*, Forrest R. Lindsey, 1967, 3rd Edition, Industrial Press, (888) 528-7852, www.industrialpress.com
- *Modern Refrigeration and Air Conditioning*, Althouse, Turnquist, Bracciano, 21st, or 22nd edition, Goodheart-Willcox, www.g-w.com
- An air duct sizing calculator wheel, slide or similar device
- *HVAC Duct Construction Standards, Metal and Flexible*,

- *International Mechanical Code*, 2021, International Code Council, (800) 786-4452, www.iccsafe.org.
- *International Fuel Gas Code*, 2021, International Code Council, (800) 786-4452, www.iccsafe.org.
- *International Plumbing Code*, 2021, International Code Council, (800) 786 -4452, www.iccsafe.org.
- *NFPA 13 - Installation of Sprinkler Systems*, 2010, National Fire Protection Association (NFPA), (800) 344-3555, www.nfpa.org.
- *Pipefitters Handbook*, Forrest R. Lindsey, 1967, 3rd Edition, Industrial Press, (888) 528-7852, www.industrialpress.com
- *Modern Refrigeration and Air Conditioning*, Althouse, Turnquist, Bracciano, 21st, or 22nd edition, Goodheart-Willcox, www.g-w.com
- An air duct sizing calculator wheel, slide, or similar device
- *HVAC Duct Construction Standards, Metal and Flexible*, 2020 edition, Sheet Metal and Air Conditioning Contractors' National Association, Inc., (703) 803-2980, www.smacna.org
- *Ugly's Electrical References, George V. Hart, 2011, 2014 or 2020, Jones and Bartlett, (800) 832-0034, www.uglys.net*
- *Carrier System Design Manual Part 3 - Piping Design*, Carrier Air Conditioning Company, (800) 227-7437, www.training.carrier.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/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, <https://test-takers.psioxams.com/tncon>
- *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 2016, Eighth Full Edition, Air Conditioning Contractors of America (ACCA)*, 2800 Shirlington Road, Suite 300. Arlington, VA 22206, (703) 575-4477, www.acca.org

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2020 edition, Sheet Metal and Air Conditioning Contractors' National Association, Inc., (703) 803-2980, www.smacna.org

- *Ugly's Electrical References*, George V. Hart, 2011, 2014 or 2020, Jones and Bartlett, (800) 832-0034, www.uglys.net
- *Carrier System Design Manual Part 3 - Piping Design*, Carrier Air Conditioning Company, (800) 227-7437, www.training.carrier.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/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, <https://test-takers.psiexams.com/tncn>

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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:

- *NFPA 11 - Standard for Low-, Medium-, and High-Expansion Foam*, 2016, National Fire Protection Association (NFPA), (800) 344-3555, www.nfpa.org
- *FPA 12 - Standard on Carbon Dioxide Extinguishing Systems*, 2018, National Fire Protection Association (NFPA), (800) 344-3555, www.nfpa.org
- *NFPA 15 - Standard for Water Spray Fixed Systems for Fire Protection*, 2017, National Fire Protection Association (NFPA), (800) 344-3555, www.nfpa.org
- *NFPA 16 - Standard for the Installation of Foam-Water Sprinkler and Foam-Water Spray Systems*, 2019, National Fire Protection Association (NFPA), (800) 344-3555, www.nfpa.org
- *NFPA 22 - Standard for Water Tanks for Private Fire Protection*, 2013, National Fire Protection Association (NFPA), (800) 344-3555, www.nfpa.org
- *NFPA 2001 - Standard for Clean Agent Fire Extinguishing Systems*, 2015, National Fire Protection Association (NFPA), (800) 344-3555, www.nfpa.org
- *NFPA 13D - Standard for the Installation of Sprinkler Systems in One- and Two-Family Dwellings and Manufactured Homes*, 2019, National Fire Protection Association (NFPA), (800) 344-3555, www.nfpa.org
- *NFPA 13R - Standard for the Installation of Sprinkler Systems in Residential Occupancies up to and Including Four Stories in Height*, 2019, National Fire Protection Association (NFPA), (800) 344-3555, www.nfpa.org
- *NFPA 13 - Installation of Sprinkler Systems*, 2010, National Fire Protection Association (NFPA), (800) 344-3555, www.nfpa.org
- *NFPA 14 - Installation of Standpipe, Private Hydrant, and Hose Systems*, 2019, National Fire Protection Association (NFPA), (800) 344-3555, www.nfpa.org
- *NFPA 20 - Standard for the Installation of Stationary Pumps for Fire Protection*, 2016, National Fire Protection Association (NFPA), (800) 344-3555, www.nfpa.org
- *NFPA 24 - Standard for the Installation of Private Fire Service Mains and Their Appurtenances*, 2014, National Fire Protection Association (NFPA), (800) 344-3555, www.nfpa.org
- *NFPA 25 - Inspection, Testing and Maintenance of Water-Based Fire Protection Systems*, 2014, National Fire Protection Association (NFPA), (800) 344-3555, www.nfpa.org

CMC-D - MECHANICAL - FIRE SPRINKLERS AND FIRE PROTECTION CONTRACTOR

# of Questions	% Required to Pass	Time Allowed
77	73% (57 items)	195 minutes

CONTENT OUTLINE

Subject Area	# of Items
Miscellaneous Systems	10
NFPA 13-D	4
NFPA 13-R	6
NFPA 13	30
NFPA 14	5
NFPA 20	7
NFPA 24	5
NFPA 25	6
NFPA 101	4

REFERENCE LIST

- *NFPA 101 - Life Safety Code, 2021*, National Fire Protection Association (NFPA), (800) 344-3555, www.nfpa.org

Candidates are responsible for bringing their own references to the examination center. Reference materials may be highlighted, underlined, and/or indexed prior to the examination session. However, references may not be written in. Any candidate caught writing in the references during the examination will be reported to the Board. Furthermore, candidates are not permitted to bring in any additional papers (loose or attached) with their approved references. References may be tabbed/indexed with permanent tabs only. Temporary tabs, such as Post-It notes, are not allowed and must be removed from the reference before the exam will begin. Scratch paper will be provided for calculations. Candidates will NOT be permitted to remove from the examination room ANY material that has been written on. (This would include books).

- *National Electrical Code, NEC Handbook, 2017*, National Fire Protection Association, (800) 344-3555, www.nfpa.org.
- *National Electrical Safety Code, 2012*, Institute of Electrical and Electronics Engineers, Inc., (732) 981-1721, www.ieee.org.
- *Code of Federal Regulations - 29 CFR Part 1926 (OSHA)*, with latest available amendments, U.S. Government Printing Office, (866) 512-1800, 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, <https://test-takers.psiexams.com/tncn>

- *Ugly's Electrical References, George V. Hart, 2011, 2014 or 2020*, Jones and Bartlett, (800) 832-0034, www.uglys.net
- *American Electricians' Handbook, Croft, Hartwell, and Summers, 17th Edition, 2021*, McGraw-Hill, (800) 262-4729, shop.mcgraw-hill.com
- *Lineman's and Cableman's Handbook, Shoemaker and Mack, 14th Edition, McGraw Hill, (800) 262-4729*, shop.mcgraw-hill.com

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CE-A, H - HIGH VOLTAGE ELECTRICAL CONTRACTOR

# of Questions	% Required to Pass	Time Allowed
60	73% (44 items)	160 minutes

CONTENT OUTLINE

Subject Area	# of Items
Safety	10
Tools, Equipment, and Transportation	10
Structures	5
Transformers, Breakers, Vaults	5
Conductors	4
Distribution, Transmission, and Substations	16
General Electrical Knowledge	10

REFERENCE LIST

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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:

- *NFPA 70 - National Electrical Code, 2017*, National Fire Protection Association (NFPA), (800) 344-3555, www.nfpa.org.

LMC - LICENSED MASONRY CONTRACTOR

# of Questions	% Required to Pass	Time Allowed
70	73% (51 items)	200 minutes

CONTENT OUTLINE

Subject Area	# of Items
Estimating and Plan Reading	7
Unit Masonry	10
Mortar and Grout	10
Accessories and Specialties	10
Stone	5
Tools	4
Restoration and Cleaning	4
Reinforced Masonry	6
Quality Assurance	6
Safety	8

REFERENCE LIST

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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:

- *International Building Code*, 2021, International Code Council, (800) 786-4452, www.iccsafe.org
- ACI-530-08: Building Code Requirements and Specification for Masonry Structures and Related Commentaries, 2013, American Concrete Institute/American Society of Civil Engineers, <http://www.concrete.org/general/home.asp>
- *Modern Masonry - Brick, Block, Stone*, Clois E. Kicklighter, 2020 edition. The Goodheart-Willcox Company, (800) 323-0440, www.g-w.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/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, <https://test-takers.psiexams.com/tncn>
- *ASTM Masonry Standards for the Building Industry*, 2008, 6th edition, ASTM International, www.astm.org
- *Indiana Limestone Handbook*, 22nd edition, 2010, Indiana Limestone Institute of America, Bedford, IN 47421, <http://www.iliai.com/index.php?pageId=41>
- *Repointing Mortar Joints in Historic Masonry Buildings*, Robert C. Mack, and John P. Speweik, October 1998, Technical Preservation Services, National Parks Service, U.S. Department of the Interior, 2 Preservation Briefs, <http://www.nps.gov/hps/tps/briefs/brief02.htm>
- *Cleaning Brickwork*, June 2006, BIA Technical Notes on Brick Construction, Vol. 20, The Brick Industry Association, 1850 Centennial Park Drive, Reston, VA 20191, http://www.gobrick.com/html/frmset_thnt.htm

Candidates are responsible for bringing their own references to the examination center. Reference materials may be highlighted, underlined, and/or indexed prior to the examination session. However, references may not be written in. Any candidate caught writing in the references during the examination will be reported to the Board. Furthermore, candidates are not permitted to bring in any additional papers (loose or attached) with their approved references. References may be tabbed/indexed with permanent tabs only. Temporary tabs, such as Post-It notes, are not allowed and must be removed from the reference before the exam will begin. Scratch paper will be provided for calculations.

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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 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.

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.psonlinestore.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.psonlinestore.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, ISBN-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=EA1aIQobChMlh5Pn_byG6AIVIONkCh1TzgUQEAQYBCABEGLabvD_BwE
- *Technical Digest No. 9 - Handling and Erection of Steel Joists and Joist Girders*, 4th Edition, 2025, Steel Joint Institute, 234 W. Cheves Street, Florence, SC 29501, Phone: (843) 407-4091, 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/topics/inconcrete/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>

Reference material may be highlighted, underlined, and/or indexed. They must be otherwise unmarked (not written in) and may not contain additional papers (loose or attached). THESE REFERENCES WILL NOT BE AVAILABLE IN THE EXAMINATION CENTER. References may be tabbed/indexed with permanent tabs only. Temporary tabs, such as Post-It notes, are not allowed and must be removed from the reference before the exam will begin.

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, ISBN-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, 2017, National Fire Protection Association (NFPA), (800) 344-3555, www.nfpa.org.

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)

PSI ONLINE BOOK STORE

- Order online at <https://test-takers.psiexams.com/tncon>.
- Call the PSI Online store toll-free at (866) 589-308

Tennessee Plumbing Exam Pre-Approval Request

Please return to the Board for Licensing Contractors. Include **"Plumbing Exam Pre-Approval"** as the subject, and send by email or fax:

Email: Contractor.App@tn.gov
FAX: (615) 532-2868



BOARD FOR LICENSING CONTRACTORS

500 JAMES ROBERTSON PARKWAY, DAVY CROCKETT TOWER, 4TH FLOOR, NASHVILLE, TN 37243-1150
(615) 253-5741 / Website: <https://tn.gov/commerce/section/contractors-home-improvement>

Pre-Approval is required by the Tennessee Board for Licensing Contractors in order to take the Tennessee Mechanical Plumbing for CMC-A or CMC. Must provide verification of at least three (3) years plumbing work experience.

Prior to registering for exam with PSI, please return completed form and any applicable attachments to the Tennessee Board for Licensing Contractors by email, fax or may also send by mail to the above address. Once approved, the board will notify PSI by e-mail within 3 days.

Exam Requested

- CMC-A (Plumbing)
- CMC (Mechanical & Plumbing)

Name: _____ Jr., Sr., III, IV / SSN: _____ - _____ - _____

Address: _____
City State Zip Code

Telephone: (_____) _____ - _____ Cell (_____) _____ - _____ Fax (_____) _____ - _____

Email Address: _____

Experience (Attach pages 2 and 3)

1. Please attach verification from municipality/county/city permit office of plumbing work (page 2)
 - May attach a copy of plumbing license from another agency as verification in lieu of page 2
2. Are you an employee of a plumbing contractor? No Yes – License ID# _____
 - If yes, Name of Contractor: _____
 - May attach a copy of W-2's from employment with a plumbing contractor as experience in lieu of page 3
3. Do you have an Engineering Degree in the Plumbing or Mechanical field? No Yes
 - If yes, attach copy of documentation in lieu of completing pages 2 - 3

Notarize

I hereby certify, I am at least 18 years of age, have at least three (3) years plumbing work experience, and the information submitted within this request for approval to take plumbing exam is true and correct to the best of my knowledge.

Applicant Signature

Affirmed, witnessed and subscribed before me this _____ day of _____, 20_____

Notary Public Signature

My Commission Expires:

- Page 2 - Required (No plumbing license) *Page 2 - Not Applicable (Plumbing license attached)
 *Page 2 - Not Applicable (Engineering degree)

**In lieu of completing this page 2, you may attach copies of W-2's for the past three (3) years from employment with a plumbing contractor, or attach copy of active plumbing license from another municipality or government agency.*

Verification of Plumbing Work Experience and/or Local License

Tennessee Plumbing Exam Pre-Approval Request

SECTION A: To be completed by Plumbing Exam Applicant

Please provide verification of at least three (3) years plumbing work experience in order to be approved to take the Tennessee CMC-A (Plumbing) or CMC (Mechanical) exam.

Name: _____

Address: _____

Telephone: (____) ____-____ Cell:(____) ____-____ Fax:(____) ____-____

Plumbing Exam Applicant's Signature: _____

SECTION B: To be completed & signed by Past Employer, Contractor, or Licensing Agency

Pursuant T.C.A. § 62-6-111(I), the above named applicant is required to provide verification of **three (3) years** plumbing work experience as a requirement in order to be approved to take the CMC-A or CMC mechanical plumbing contractor's exam. Our Board appreciates your assistance, time and cooperation. Please complete, sign and return this page to the plumber applying to take the exam.

Section B - Completed by:

Employer/Plumbing Contractor: _____

or

Licensing Agency (County/City/Municipality Permit Office): _____

Type of License: Master Journeyman Apprentice State Other-_____

Licensed By:

Exam Type: Block NAI PSI Other:_____ Score: _____ Date: _____

Endorsement: State City County Other:_____

Not Applicable - Non-license type of experience verification

Verification:

It is my opinion, to the best of my knowledge, the above named plumbing exam applicant has the following amount and type of plumbing work experience:

Experience: 0 – 12 months More than 1 year 3 years or more

Type of Plumbing: Sewage Backflow Connection to Potable Water

Fixtures Water Heater Installation of Appliances

Water Piping Gas Piping Sprinkler/Fire Protection

Other: _____ Irrigation/Lawn Sprinklers

Print Name

Signature

Title

*Note: Applicants requesting exam pre-approval may not sign **Section B** for themselves; must be signed by the appropriate person verifying plumbing work experience for the applicant.*

Page 3/Experience - Required (*W-2's not attached*)
 *Page 3/Experience - Not Required (*Engineering degree*)

*Page 3/Experience - Not Required (*W-2's Attached*)

Plumbing Work Experience

Tennessee Plumbing Exam Pre-Approval Request

Please list specific plumbing work demonstrating a total of at least **three (3) years' experience** (may copy and attach additional pages if needed). May attach a resume that includes same information as below.

1. Employed as: Contractor/Plumber Subcontractor Employee of Contractor

Name of Employer; or
Customer: _____ Date: ____/____/____ to ____/____/____

Address: _____

Telephone:(____) _____ - _____ Email: _____

Type of Work Performed: _____

2. Employed as: Contractor/Plumber Subcontractor Employee of Contractor

Name of Employer; or
Customer: _____ Date: ____/____/____ to ____/____/____

Address: _____

Telephone:(____) _____ - _____ Email: _____

Type of Work Performed: _____

3. Employed as: Contractor/Plumber Subcontractor Employee of Contractor

Name of Employer; or
Customer: _____ Date: ____/____/____ to ____/____/____

Address: _____

Telephone:(____) _____ - _____ Email: _____

Type of Work Performed: _____

4. Employed as: Contractor/Plumber Subcontractor Employee of Contractor

Name of Employer; or
Customer: _____ Date: ____/____/____ to ____/____/____

Address: _____

Telephone:(____) _____ - _____ Email: _____

Type of Work Performed: _____
