PSI Services LLC
https://test-takers.psiexams.com/mscontlb

STATE OF MISSISSIPPI
CONTRACTOR EXAMINATIONS

CANDIDATE INFORMATION BULLETIN

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Please refer to our website to check for the most updated information at https://test-takers.psiexams.com/mscontlb

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MISSISSIPPI EXAMINATION PROCEDURE CHECKLIST

Before registering for an examination, make sure that you have reviewed the following checklist.

Become eligible to take the examination(s):

- ☐ Request an application package from the Mississippi Contractor Licensing Board.
- ☐ Complete the appropriate application, commercial or residential, along with any other necessary forms, and return to the Board.
- ☐ The Board will notify PSI of your eligibility and PSI will email you a confirmation notice.
- ☐ You will have 6 months from the date of eligibility to take the examination. If you fail, you may retest on an unlimited basis during this 6-month period. If you do not pass within 6 months, you must reapply with the Board.

Prepare for your examination(s):

- ☐ Use the examination content outlines provided in this bulletin as the basis of your study.

Take your examination(s):

- ☐ Must bring one form of identification which bear your signature and must also have your photograph.
  - ➘ Your name as shown on the application form must exactly match the name on the photo I.D. used when checking in at the examination site.
- ☐ Arrive 30 minutes prior to appointment.

After your examination(s):

- ☐ Upon passing the examination and meeting all the licensing requirements, the Board will review applications on a weekly basis. Successful candidates will receive their Commercial Certificate of Responsibility or Residential License approximately one week after approval by the Board.

EXAMINATIONS BY PSI

This Candidate Information Bulletin provides you with information about the examination for becoming licensed as a Contractor in the State of Mississippi.

Mississippi State law requires Contractors to be licensed and regulated by the Mississippi Contractor Licensing Board. Eligibility for examination is determined by the Board.

The Licensing Board has contracted with PSI Services LLC (PSI) to conduct its examination program. PSI provides examinations through a network of computer examination centers in Mississippi. 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.

GUIDELINES FOR LICENSE APPLICATION/QUALIFICATION

HOW TO OBTAIN A LICENSE

1. Request a license application package from:
   Mississippi Contractor Licensing Board
   Mailing Address:
   P.O. Box 320279
   Jackson, Mississippi 39232-0279

   Physical Address:
   2679 Crane Ridge Drive, Suite C
   Jackson, Mississippi 39216
   PH: 601-354-6161
   FX: 601-354-6715
   www.msboc.us
2. Complete the appropriate application and return it to the Board.
3. The Board will notify PSI of your eligibility and PSI will email you a confirmation notice.
4. The Board will determine which examinations the candidate needs to take.
   - Each company seeking a Certificate of Responsibility is required to designate a qualifying individual to take the examinations. Proof of employment (W2 or check stub) is required.
   - A certificate is granted with the stipulation that the qualifying individual remains with the firm.
   - If the qualifying individual leaves the firm, the company must notify the Board in writing immediately.
   - A new qualifying individual must be designated and must successfully complete the required examinations within 90 days after departure of the previous qualifying individual.
5. New applicants seeking 1st time licensure will have 6 months from the date of eligibility to take the examination. If you fail, you may retest on an unlimited basis during this 6-month period. If you do not pass within 6 months, you must reapply with the Board.

All questions and requests for information about examinations should be directed to PSI.

PSI Services LLC
(855) 557-0619
https://test-takers.psiexams.com/mscontlb

EXAMINATION SCHEDULING PROCEDURES

FEES

The following fee table lists the applicable fee for the examination. The fee is for each registration, whether you are taking the examination for the first time or repeating it.

One Examination Portion ($120)
Two Examination Portions ($240)

NOTE: REGISTRATION FEES ARE NOT REFUNDABLE OR TRANSFERABLE

1. **The State is the only entity authorized to tell you which tests you should take.** While PSI can provide you information about each test, only the State has the binding authority to tell you which tests you are qualified to take. Any questions regarding which tests to take should be directed to the Board.

2. **You will be responsible for registering for the appropriate tests.** The State will inform you of the tests you are qualified to take. Please make sure you register for only the tests for which you have been approved. PSI will not be held responsible for any tests that candidates have mistakenly registered for or taken.

3. **No refunds will be given once registration information and payment to PSI has been made.** Notwithstanding the "no refund" policy, PSI does have a very flexible rescheduling policy. If you are unable to make your upcoming testing appointment, PSI will allow you to cancel that appointment up to 2 days prior to the event, and then will hold your unused exam funds for you to use up to one (1) year after your initial registration date. But, since no refunds will be provided make sure you are committed to testing before submitting payment.

4. **No transfer of registration fees is allowed.** Once you have designated a person to take the test for your firm, there will be no transferring of registration or scheduled test dates, or fees to another person. Make sure that you designate the correct person to take the test when you register so that you will not forfeit any fees.

INTERNET REGISTRATION

For the fastest and most convenient test scheduling process, PSI recommends that candidates register for their exams using the Internet. Candidates register online by accessing PSI's registration website at https://test-takers.psiexams.com/mscontlb. Internet registration is available 24 hours a day.

Log onto PSI's website and create an account. Please 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 REGISTRATION

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

PSI registrars are available at (855) 557-0619, Monday through Friday between 7:30 am and 10:00 pm, and Saturday-Sunday between 9:00 am and 5:30 pm, Eastern Time, to receive your payment and schedule your appointment for the examination.

SCHEDULING AN APPOINTMENT TO TAKE THE EXAMINATION

You are responsible for calling PSI to schedule an appointment to take the examination. PSI will make every effort to schedule the examination site and time that is most convenient for you. To schedule with a PSI registrar, call Monday through Friday, between 6:30 am and 9:00 pm, and 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 6:00pm CT. Please be prepared to offer alternate examination appointment choices.

CANCELING 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*. For example, for a Monday appointment, the cancellation notice would need to be received on the previous Saturday. **If you do not meet the cancellation deadline, you will forfeit your fee. Fees are not refundable or transferable.** You may call PSI at (855) 557-0619.

A voice mail message is not an acceptable form of cancellation. Please use the PSI Website or call PSI to speak directly to a Customer Service Representative.

Note: Although testing fees are **not** refundable for cancelled appointments, PSI will maintain your exam fees on file for a period of one (1) year from the date of your initial registration and you may reschedule your test when it is once again convenient.

MISSED APPOINTMENT OR LATE CANCELLATION

If for any reason you fail to appear for your testing appointment, your registration and fee payment will be forfeited, and you will be required to re-register before being able to schedule another testing appointment. PSI considers your appointment missed or cancellation late if you;

- Do not cancel your appointment 2 days before the schedule examination date;
- Do not appear for your examination appointment;
- Arrive after examination start time;
- 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.

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) 557-0619. Every effort will be made to reschedule your examination at a convenient time as soon as possible. You may also check PSI's website at https://test-takers.psiexams.com/mscontlb.

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.

EXAMINATION SITE LOCATIONS

The PSI Occupational Licensing examinations are administered at the examination center listed below:

Jackson
2679 Crane Ridge Dr, Suite B
Jackson, MS 39216
Traveling on I-55N Toward Grenada/Memphis., Merge onto Lakeland Dr/MS-25 N via Exit 98B toward Carthage. Turn right onto Crane Ridge Dr.

Examinations are also available to Mississippi candidates in other PSI testing centers located across the U.S. Regionally located sites are found in:

- Louisiana (Baton Rouge, New Orleans, Shreveport)
- Alabama (Huntsville, Birmingham, Montgomery, Mobile)

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.

It is important to recognize that each testing facility has its own weekly testing schedule that varies by time of year and geographic location. In general testing is available at least 1 to 2 times per week at each location and typically more often in most locations. Since test session availability changes rapidly, PSI will only provide available test date and location information to those that have already registered and made exam payment. If you are registered for your test, you will be given the available test dates and you will be able to select where and when you would like to take your test.

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.*

Click here for a video of the Test Center Experience

REQUIRED IDENTIFICATION AT EXAMINATION SITE

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.

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
- US Government Issued Alien Registration Card
- Canadian Government Issued ID

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.
- 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.

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

EXAMINATION REVIEW

PSI, in cooperation with the Board, will be consistently evaluating the examinations being administered to ensure that the examinations accurately measure competency in the required knowledge areas. While taking the examination, examinees will have the opportunity to provide comments on any questions, by using the comments key on the keyboard. These comments will be analyzed by PSI examination development staff. PSI does not respond to individuals regarding these comments, and all substantive comments are reviewed. This is the only review of examination materials available to candidates.

SCORE REPORTING

In order to pass the examinations, you must achieve a minimum score of 70%.

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 are using review features, you will be able to obtain your score immediately when you indicate that you have finished and would like to see your results.
  - 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 diagnostic report indicating your strengths and weaknesses by examination type. Registration forms for submittal to PSI to retake the examination will be available at the examination site.

You may print the score report from your online account.

Now you can take the practice exam online at https://test-takers.psiexams.com/mscontlb to prepare for your Contractor Examination

Please note that practice exams are intended only to help testing candidates become familiar with the general types of questions that will appear on a licensing examination. They ARE NOT a substitute for proper education and study. Furthermore, scoring well on the practice exam does not guarantee a positive outcome on an actual licensing examination.

Note: You may take the practice exams an unlimited number of times; you will need to pay each time.

EXAMINATION REFERENCE MATERIAL AND CONTENT OUTLINES

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."

The Law and Business Management examination is mandatory for all contractors in MS applying for commercial or residential licenses. Trade exams are required also unless there is not an exam required for that specialty trade or the trade exam is waived through reciprocity.

LAW AND BUSINESS MANAGEMENT EXAMINATION

# of Questions	% Required to Pass	Time Allowed
50	70	2 hours

CONTENT OUTLINE

Subject Area	# of Items
Licensing	5
Estimating and Bidding	7
Lien Law	1
Financial Management	5
Tax Laws	5
Labor Laws	5
Project Management	5
Contracts	6
Business Organization	2
Risk Management	4
Environmental and Safety	5

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.

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 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 editions of the Code book that are listed and that is the only edition allowed into the testing site.

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:

- *NASCLA Contractors Guide to Business, Law and Project Management - Mississippi*, 5th Edition or 6th Edition, www.nascla.org. (Effective October 1, 2023, only the 6th Edition will be referenced).

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 have the references confiscated and will be reported to the department. Furthermore, candidates are not permitted to bring in any additional papers (loose or attached) with their approved references. Any additional materials will be removed from the references and confiscated. 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.

BOOK STORES

The reference materials listed in the content outlines may be found at one of the following locations:

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

My Contractors License
http://www.mycontractorslicense.com
877-699-0775

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

ALARM SYSTEMS AND EQUIPMENT

SCOPE OF WORK

Unlimited fire, heat and intrusion detection and notification systems.

# of Questions	% Required to Pass	Time Allowed
60	70	2 hours

CONTENT OUTLINE

Subject Area	# of Items
General Electrical and Low Voltage	10
Fire Detection and Notification	32
Intrusion Detection and Notification	18

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 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 editions of the Code book that are listed and that is the only edition allowed into the testing site.

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:

- National Electrical Code, NEC, 2020, National Fire Protection Association, 1 Batterymarch Park, Quincy, Massachusetts 02169, (800) 344-3555, www.nfpa.org
- NFPA 72 - National Fire Alarm Code, 2019, National Fire Protection Association, 1 Batterymarch Park, Quincy, Massachusetts 02169, (800) 344-3555, www.nfpa.org
- Fire Alarm Signaling Systems Handbook, 2010, 4th edition, Bukowski & O'Laughlin, National Fire Protection Association, 1 Batterymarch Park, Quincy, Massachusetts 02169, (800) 344-3555, www.nfpa.org
- Low Voltage Wiring: Security/Fire Alarm Systems, 2002, John E. Traister, Terry Kennedy, 0-07-137674-7, McGraw-Hill, P.O. Box 182605, Columbus, OH 43218-2605, www.McGraw-hill.com
- Understanding and Servicing Alarm Systems - Third Edition, Butterworth-Heinemann (Reed Publishing), 313 Washington Street, Newton, MA 02158-1626, www.bh.com
- NTC Blue Book – Low Voltage Systems Handbook, 2020, National Training Center http://www.nationaltrainingcenter.net/index.xml

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 have the references confiscated and will be reported to the department. Furthermore, candidates are not permitted to bring in any additional papers (loose or attached) with their approved references. Any additional materials will be removed from the references and confiscated. 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.

BOILER INSTALLATION AND REPAIR

SCOPE OF WORK

Unlimited boilers and associated gas and steam piping - residential, commercial and industrial.

# of Questions	% Required to Pass	Time Allowed
50	70	2 hours

CONTENT OUTLINE

Subject Area	# of Items
Boilers	15
Valves and Controls	8
Pumps	5
Safety	5
Piping and Traps	8
Other Components and Accessories	4
Fuels	2
General Knowledge and Code Requirements	3

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 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 editions of the Code book that are listed and that is the only edition allowed into the testing site.

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:

- Steam Plant Operation, 10th edition, 2017, Woodruff, Lammers, & Lammers, McGraw-Hill, (800) 262-4729, shop.mcgraw-hill.com
- Modern Hydronic Heating for Residential and Light Commercial Buildings, John Siegenthaler, P.E., 2012, Delmar/Thomson Learning, (800) 347-7707, www.delmarlearning.com
- International Mechanical Code, 2021, International Code Council, 5203 Leesburg Pike, Suite 600 Falls Church, VA 22041, 7039314533, www.intlcode.org/
- International Fuel Gas 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/laws-regs/regulations/standardnumber/1926
  OR
  Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI, with latest available amendments, www.psionlinestore.com, (866) 589-3088 (See order form at the end of the Candidate Information Bulletin.)
- HVAC Pump Handbook, 2006, by James B. Rishel, McGraw-Hill, POB 182605, Columbus, OH 43218-2605, (800) 338-3937, fax 614/759-3644, www.mcgraw-hill.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 have the references confiscated and will be reported to the department. Furthermore, candidates are not permitted to bring in any additional papers (loose or attached) with their approved references. Any additional materials will be removed from the references and confiscated. 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.

BUILDING CONSTRUCTION

SCOPE OF WORK

Any commercial, residential or industrial stucture.

Note: MS applicants taking the Building Construction exam have a choice of trade exams. They can elect to take either the NASCLA Accredited Examination for Commercial General Building Contractors which is accepted by multiple state agencies or the MSBOC Building Construction 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.

# of Questions	% Required to Pass	Time Allowed
80	70	3 hours

CONTENT OUTLINE

Subject Area	# of Items
Site work	6
Concrete	12
Masonry	6
Metals	10
Carpentry	7
Thermal and Moisture Protection	7

Doors and Windows	3
Finishes	3
Safety	8
General Code, Plan Reading and Estimating	15
Mississippi One Call	3

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 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 editions of the Code book that are listed and that is the only edition allowed into the testing site.

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, 5203 Leesburg Pike, Suite 600 Falls Church, VA 22041, 7039314533, www.intlcode.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, www.psionlinestore.com, (866) 589-3088 (See order form at the end of the Candidate Information Bulletin.)
- 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,
- Carpentry and Building Construction, 2010 or 2016 (Student Edition), John L. Feirer and Mark D. Feirer, McGraw-Hill, www.mheducation.com
- Design and Control of Concrete Mixtures, 15th or 16th Edition, 2016, Steven H. Kosmatka, William C. Panarese, Portland Cement Association, 5420 Old Orchard Road, Skokie, Il 60077-1083, 847-966-6200, http://members.cement.org/EBiz55/Bookstore/BookstoreHome.aspx
- Pipe and Excavation Contracting, Dave Roberts, 2011, Craftsman Book Company, (800) 829-8123, www.craftsman-book.com
- Roofing Construction & Estimating, 1995, Daniel Atcheson, Craftsman Book Company, P.O. Box 6500, Carlsbad, CA 92018, www.craftsman-book.com
- State of Mississippi Regulation of Excavation, Chapter 13 Regulation of Excavations Near Underground Utility Facilities, https://www.ms811.org/law/
- Training and Certification of Field Personnel for Unbonded Post-Tensioning - Level 1 Field Fundamentals, 2003, 3rd Edition. Post Tensioning Institute. 1717 West Northern Avenue, Ste 114 Phoenix, AZ 85021 248.848.3180
- Modern Masonry - Brick, Block, Stone, Clois E. Kicklighter, 8th edition (2015). The Goodheart-Willcox Company, (800) 323-0440, www.g-w.com
- Placing Reinforcing Bars, Recommended Practices, 2011 or later printing, 9th edition, Concrete Reinforcing Steel Institute, 933 North Plum Grove Rd, Schaumburg, IL 60173, Phone (800) 328-6306, www.crsi.org/index.cfm/placingbook

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 have the references confiscated and will be reported to the department. Furthermore, candidates are not permitted to bring in any additional papers (loose or attached) with their approved references. Any additional materials will be removed from the references and confiscated. 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 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/

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

# of Questions	Minimum Passing Score	Time Allowed
115	81	330 Minutes

CONTENT OUTLINE

Subject Area	# of Items
General Requirements	25
Site Construction	15
Concrete	6
Masonry	4
Metals	6
Wood	5
Thermal and Moisture Protection	5
Doors, Windows, and Glazing	4
Finishes	5
Mechanical and Plumbing Systems	6
Electrical Systems	3
Procurement and Contracting Requirements	31

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 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 editions of the Code book that are listed and that is the only edition allowed into the testing site.

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

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.

CARPENTRY

SCOPE OF WORK

Unlimited Carpentry, formwork and related specialties.

# of Questions	% Required to Pass	Time Allowed
60	70	2 hours

CONTENT OUTLINE

Subject Area	# of Items
Safety	6
Insulation	1
Windows and Doors	3
Rough Carpentry and Formwork	27
Finish Carpentry	14
Drywall	7
Siding	2

REFERENCE LIST

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This examination is OPEN BOOK.

The following reference materials are allowed in the examination center:

- 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, www.psionlinestore.com, (866) 589-3088 (See order form at the end of the Candidate Information Bulletin.)
- Carpentry and Building Construction, 2010 or 2016 (Student Edition), John L. Feirer and Mark D. Feirer, McGraw-Hill, www.mheducation.com
- 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
- 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, rsmeans.reedconstructiondata.com
- Finish Carpenter's Manual, Jim Tolpin, 1993, Craftsman Book Company, (800) 829-8123, www.craftsman-book.com.
- International Building Code, 2021, International Code Council, 5203 Leesburg Pike, Suite 600 Falls Church, VA 22041, 7039314533, www.intlcode.org/
- 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

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COMMUNICATION SYSTEMS

SCOPE OF WORK

Low voltage electrical systems, except for alarms.

# of Questions	% Required to Pass	Time Allowed
50	70	2 hours

CONTENT OUTLINE

Subject Area	# of Items
Sound and Communications	23
Services, Feeders, Branch Circuits and Overcurrent Protection	6
Conductors, Raceways and Enclosures	6
General Knowledge and Calculations	8
Grounding and Bonding	4
Power Supplies	3

REFERENCE LIST

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This examination is OPEN BOOK.

The following reference materials are allowed in the examination center:
- National Electrical Code, NEC, 2020, National Fire Protection Association, 1 Batterymarch Park, Quincy, Massachusetts 02169, (800) 344-3555, www.nfpa.org
- Code of Federal Regulations, 47-Telecommunications, Latest Edition, U.S. Government Printing Office, (866) 512-1800, http://www.gpo.gov/
- Telecommunications Wiring - 3rd edition, 2001, Clyde Herrick, 0-13-028696-6, Prentice-Hall PTR, Upper Saddle River, New Jersey 07458, www.phprt.com
- Live Sound Reinforcement: A Comprehensive Guide to P.A. and Music Reinforcement Systems and Technology, **-OR-** Live Sound Reinforcement, Bestseller Edition, Scott Hunter Stark, www.amazon.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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CONCRETE

SCOPE OF WORK

Unlimited concrete work.

# of Questions	% Required to Pass	Time Allowed
50	70	2 hours

CONTENT OUTLINE

Subject Area	# of Items
Safety	6
Concrete-Earthwork	3
Concrete	15
Concrete-Reinforcement	10
Concrete-Formwork	12
Concrete - Cutting	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 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 editions of the Code book that are listed and that is the only edition allowed into the testing site.

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The following reference materials are allowed in the examination center:

- 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, www.psionlinestore.com, (866) 589-3088 (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
- Design and Control of Concrete Mixtures, 16th Edition, 2016, Steven H. Kosmatka, William C. Panarese, Portland Cement Association, 5420 Old Orchard Road, Skokie, Il 60077-1083, 847-966-6200, http://members.cement.org/EBiz55/Bookstore/BookstoreHome.aspx
- Sawcutting Joints in Concrete, Bruce A. Suprenant, 1995, Concrete Construction Magazine, (773) 824-2400, http://www.concreteconstruction.net/Images/Sawcutting%20Joints%20in%20Concrete_tcm45-346934.pdf
- Sawcutting Concrete Flatwork, Rosalie Johnston, 1994, Concrete Construction Magazine, (773) 824-2400, http://www.concreteconstruction.net/Images/Saw%20Cutting%20Concrete%20Flatwork_tcm45-342760.pdf
- Taking the Tedium Out of Cutting, 1981, Concrete Construction Magazine, (773) 824-2400, http://www.concreteconstruction.net/Images/Taking%20the%20Tedium%20Out%20of%20Cutting_tcm45-345991.pdf
- Tips for Cutting Concrete, 1987, Concrete Construction Magazine, (773) 824-2400, http://www.concreteconstruction.net/Images/Tips%20on%20Cutting%20Concrete_tcm45-346570.pdf
- International Building Code, 2021, International Code Council, 5203 Leesburg Pike, Suite 600 Falls Church, VA 22041, 7039314533, www.intlcode.org/

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CONVEYOR SYSTEMS

SCOPE OF WORK

Installation, maintenance and repair of all types of conveying equipment.

# of Questions	% Required to Pass	Time Allowed
40	70	2 hours

CONTENT OUTLINE

Subject Area	# of Items
Installation	12
Systems and Equipment	8
Tools and Fasteners	5
Safety	4
Maintenance and Troubleshooting	4
Electrical	3
Welding	4

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:

- NCCER 15402-08 Troubleshooting and Repairing Conveyors, 2008, http://nccer.pearsonconstructionbooks.com/store/
- NCCER 15401-08 Conveyors, 2008, http://nccer.pearsonconstructionbooks.com/store/
- Modern Welding, 2013, 11th Edition, Althouse/Turnquist/Bowditch/Bowditch/Bowditch, 978-1-60525-795-2, The Goodheart-Willcox Company, Inc., 18604 West Creek Dr., Tinley Park, IL 60477-6243, (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/laws-regs/regulations/standardnumber/1926
OR
Code of Federal Regulations - 29 CFR Part 1926
Selections by PSI, with latest available amendments, www.psionlinestore.com, (866) 589-3088 (See order form at the end of the Candidate Information Bulletin.)

- Specification for Structural Joints Using ASTM A325 or A490 Bolts, 2004, Research Council on Structural Connections, C/O American Institute of Steel Construction, Inc., One East Wacker Drive, Suite 3100, Chicago, IL 60601-2001, www.boltcouncil.org
- ASME B20.1-2003 Safety Standard for Conveyors and Related Equipment 2015

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DUCTWORK FOR HEATING, A/C AND VENTILATION

SCOPE OF WORK

Unlimited Ductwork for Heating A/C and Ventilation.

# of Questions	% Required to Pass	Time Allowed
60	70	2 hours

CONTENT OUTLINE

Subject Area	# of Items
Ducts	39
Hoods and Ventilation Equipment and Devices	6
General Knowledge	10
Safety	5

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 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 editions of the Code book that are listed and that is the only edition allowed into the testing site.

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:

- HVAC Duct Construction Standards, Metal and Flexible, 2005, 3rd Edition, Sheet Metal and Air Conditioning Contractors' National Association, Inc., (703) 803-2980, www.smacna.org
- Sheet Metal, 2006, Leo A Meyer, American Technical Publishers, Inc., 1115 W 175th St. Homewood, IL 60430
- 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, www.psionlinestore.com, (866) 589-3088 (See order form at the end of the Candidate Information Bulletin.)
- International Mechanical Code, 2021, International Code Council, 5203 Leesburg Pike, Suite 600 Falls Church, VA 22041, 7039314533, www.intlcode.org/
- NFPA 96, Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations, 2021 National Fire Protection Association, 1 Batterymarch Park, Quincy, Massachusetts 02169, (800) 344-3555, www.nfpa.org
- ACCA Ductulator, Air Conditioning Contractors of America, 2800 Shirlington Road, Suite 300. Arlington, VA 22206, (703) 575-4477, www.acca.org

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ELEVATORS AND ESCALATORS

SCOPE OF WORK

Installation and repair of elevators and escalators.

# of Questions	% Required to Pass	Time Allowed
60	70	2 hours

CONTENT OUTLINE

Subject Area	# of Items
Wire Rope	2
Clearance and Space Limits	8
Electrical	9

Testing	3
Engineering and Inspection	6
Safety Devices	10
Controls	3
Operating Limitations	2
Drive Mechanisms	4
Fire Service	3
Maintenance and Repairs	6
Escalators and Dumbwaiters	2
Emergency Power	2

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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:

- ASME A17.1 - Safety Code for Elevators and Escalators, 2016, American Society of Mechanical Engineers, Three Park Avenue New York, NY 10065, 8008432763, www.asme.org
- ASME A17.3: Safety Code for Existing Elevators and Escalators, 2020, National Fire Protection Association, 11 Batterymarch Park, Quincy, Massachusetts 02169, (800) 344-3555, www.nfpa.org
- ASME A17.5: Elevator and Escalator Electrical Equipment, 2014, National Fire Protection Association, 1 Batterymarch Park, Quincy, Massachusetts 02169, (800) 344-3555, https://webstore.ansi.org/standards/csa/csab442014asmea17
- National Electrical Code, NEC, 2020, National Fire Protection Association, 1 Batterymarch Park, Quincy, Massachusetts 02169, (800) 344-3555, www.nfpa.org **OR** National Electrical Code Handbook, 2014.

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EXCAVATION AND GRADING

SCOPE OF WORK

Clearing, grading and excavating.

# of Questions	% Required to Pass	Time Allowed
40	70	2 hours

CONTENT OUTLINE

Subject Area	# of Items
General Regulations and One Call	15
Excavating and Grading	20
Safety - Code of Federal Regulations	5

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The following reference materials are allowed in the examination center:

- Pipe and Excavation Contracting, Dave Roberts, 2011, Craftsman Book Company, (800) 829-8123, www.craftsman-book.com/products.
- 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, www.psionlinestore.com, (866) 589-3088 (See order form at the end of the Candidate Information Bulletin.)
- State of Mississippi Regulation of Excavation, Chapter 13 Regulation of Excavations Near Underground Utility Facilities, https://www.ms811.org/law/
- Mississippi Standard Specifications for Road and Bridge Construction, 2004, Mississippi Department of Transportation - Construction Division, (601) 359-7301, www.gomdot.com

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examination session. However, references may not be written in. Any candidate caught writing in the references during the examination will have the references confiscated and will be reported to the department. Furthermore, candidates are not permitted to bring in any additional papers (loose or attached) with their approved references. Any additional materials will be removed from the references and confiscated. 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.

FIRE SPRINKLERS

SCOPE OF WORK

Unlimited Fire Suppression Systems.

# of Questions	% Required to Pass	Time Allowed
60	70	2 hours

CONTENT OUTLINE

Subject Area	# of Items
Fire Sprinkler Systems	23
Fire Sprinkler -- Wet and Dry Chemical Systems	12
Fire Sprinkler -- Standpipe	10
Inspection, Testing and Maintenance	7
General Knowledge and Regulations	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 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 editions of the Code book that are listed and that is the only edition allowed into the testing site.

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 13: Installation of Sprinkler Systems, 2019, National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169, (800) 344-3555, www.nfpa.org
- NFPA 14: Installation of Standpipe, Private Hydrant, and Hose Systems, 2019, National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169, (800) 344-3555, www.nfpa.org
- NFPA 17: Standard for Dry Chemical Extinguishing Systems, 2017, National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169, (800) 344-3555, www.nfpa.org
- NFPA 11: Standard for Low-, Medium-, and High-Expansion Foam, 2016, National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169, (800) 344-3555, www.nfpa.org
- NFPA 12 Standard on Carbon Dioxide Extinguishing Systems, 2018, NFPA, National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169, (800) 344-3555, www.nfpa.org
- NFPA 25: Inspection, Testing and Maintenance of Water-Based Fire Protection Systems, 2014, National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169, (800) 344-3555, www.nfpa.org
- NFPA 17A: Standard for Wet Chemical Extinguishing Systems, 2017, National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169, (800) 344-3555, www.nfpa.org
- NFPA 2001: Standard for Clean Agent Fire Extinguishing Systems, 2015, National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169, (800) 344-3555, www.nfpa.org

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FUELING SYSTEMS

SCOPE OF WORK

Installation of fuel dispensing systems and storage facilities.

# of Questions	% Required to Pass	Time Allowed
50	70	2 hours

CONTENT OUTLINE

Subject Area	# of Items
Excavation	16
Tank Installation and Testing	14
Piping. Pumps, and Controls	5
Troubleshooting and Maintenance	4
Safety and Fire Prevention	8
Leak Detection and Monitoring Systems	3

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 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 editions of the Code book that are listed and that is the only edition allowed into the testing site.

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 30, Flammable and Combustible Liquids Code, 2018, National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169, (800) 344-3555, www.nfpa.org
- NFPA 30A, Code for Motor Fuel Dispensing Facilities and Repair Garages, 2018, National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169, (800) 344-3555, www.nfpa.org
- RP100 UST Installation Recommended Practices for Installation of Underground Liquid Storage Systems Petroleum Equipment Institute P.O. Box 2380, Tulsa, OK 74101-2380, USA info@pei.org Tel: (918) 494-9696 Fax: (918) 491-9895
- RP200 AST Installation Recommended Practices for Installation of Aboveground Storage Systems for Motor Vehicle Fueling, 2019, Petroleum Equipment Institute P.O. Box 2380, Tulsa, OK 74101-2380, USA info@pei.org Tel: (918) 494-9696 Fax: (918) 491-9895.
- RP400 Electrical Continuity Recommended Procedure for Testing of Electrical Continuity of Fuel-Dispensing Hanging Hardware. 2012, Petroleum Equipment Institute P.O. Box 2380, Tulsa, OK 74101-2380, Email: info@pei.org, Tel: (918) 494-9696, Fax: (918) 491-9895
- 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, www.psionlinestore.com, (866) 589-3088 (See order form at the end of the Candidate Information Bulletin.)
- Pipe and Excavation Contracting, Dave Roberts, 2011, Craftsman Book Company, (800) 829-8123, www.craftsman-book.com/products.

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GLASS, GLAZING, WINDOWS AND SKYLIGHTS

SCOPE OF WORK

Limited to flat glass work in residential or commercial settings

# of Questions	% Required to Pass	Time Allowed
45	70	2 hours

CONTENT OUTLINE

Subject Area	# of Items
General Glazing	12
Glass Systems	10
Plastics/Acrylics	4
Sealant Installations	4
Safety	5
Code Requirements	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:

- *Guide to Glass & Glazing Requirements of the Model Building Codes*, 5th edition, 2016 or earlier, National Glass Association, (866)-342-5642) Ext. 127, www.glass.org
- *Glass Association of North America Glazing Manual*, http://www.syracuseglass.com/E-DOCS/Technical%20Literature/EDOCS/GANA%20Publications.pdf
- 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, www.psionlinestore.com, (866) 589-3088 (See order form at the end of the Candidate Information Bulletin.)

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HEAVY CONSTRUCTION

SCOPE OF WORK

Sewer, water and gas pipelines, grading and excavation, paving and plant construction.

# of Questions	% Required to Pass	Time Allowed
100	70	4 hours

CONTENT OUTLINE

Subject Area	# of Items
Water and Sewer	16
Gas	8
Paving	12
Excavation, Compaction and Grading	12
Safety	7
Steel	12
Piles	4
Concrete	17
Traffic Control	3
Welding	6
MS One-Call	3

REFERENCE LIST

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This examination is OPEN BOOK.

The following reference materials are allowed in the examination center:

- Placing Reinforcing Bars, Recommended Practices, 2011 or later printing, 9th edition, Concrete Reinforcing Steel Institute, (800) 328-6306, www.crsi.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, www.psionlinestore.com, (866) 589-3088 (See order form at the end of the Candidate Information Bulletin.)
- DIPRA Installation Guide for Ductile Iron Pipe, 2015, Ductile Iron Pipe Research Association, www.dipra.org
- Pipe and Excavation Contracting, Dave Roberts, 2011, Craftsman Book Company, (800) 829-8123, www.craftsman-book.com/products.
- Pipe Welding Procedures, 2003, Hoobasar Rampaul, 0-8311-1100-3, Industrial Press, 200 Madison Avenue, NEW York, NY 10016, www.industrialpress.com
- Hot Mix Asphalt Paving Handbook (MAPH-2), AASHTO, 444 North Capitol Street NW, Ste 238, Washington DC 20001.
- Pipefitter's Handbook, 3rd Edition, 1967, Forest R Lindsey, Industrial Press, Inc., 200 Madison Ave., New York, NY 10016
- State of Mississippi Regulation of Excavation, Chapter 13 Regulation of Excavations Near Underground Utility Facilities, https://www.ms811.org/law/
- 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, Starting 1/1/2026, the 2025 4th edition can be used.
- ASME Code for Pressure Piping - B31.8 - Gas Transmission and Distribution Piping Systems, 2018, American Society of Mechanical Engineers, Three Park Avenue, New York, NY 10065, (800) 843-2763, www.asme.org
- Training and Certification of Field Personnel for Unbonded Post-Tensioning - Level 1 Field Fundamentals, 2003, 3rd Edition. Post Tensioning Institute. 1717 West Northern Avenue, Ste 114 Phoenix, AZ 85021 248.848.3180
- Concrete Pipe and Box Culvert Installation, 2007, American Concrete Pipe Association, (972) 506-7216, http://www.concrete-pipe.org/ysk_pdfs/installation_guide.pdf
- Mississippi Standard Specifications for Road and Bridge Construction, 2004, Mississippi Department of Transportation - Construction Division, (601) 359-7301, www.gomdot.com
- Design and Control of Concrete Mixtures, 15th or 16th Edition, 2016, Steven H. Kosmatka, William C. Panarese, Portland Cement Association, 5420 Old Orchard Road, Skokie, Il 60077-1083, 847-966-6200, http://members.cement.org/EBiz55/Bookstore/BookstoreHome.aspx
- SP-4 Formwork for Concrete, 2014, 8th Edition, David W. Johnston, American Concrete Institute, https://www.concrete.org/store.aspx

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HIGHWAY

SCOPE OF WORK

Roads, highways, bridges, excavation and grading.

# of Questions	% Required to Pass	Time Allowed
60	70	2 hours

CONTENT OUTLINE

Subject Area	# of Items
Paving-Asphalt	19
Piles	3
Excavation and Grading	11
Concrete Paving	7
Safety	5
MS One-Call	3
Traffic Control	2
Concrete	5
Metals	5

REFERENCE LIST

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This examination is OPEN BOOK.
The following reference materials are allowed in the examination center:

- Hot-Mix Asphalt Paving Handbook (MAPH-2), 2000, AASHTO, 444 North Capitol Street NW, Ste 249, Washington DC 20001.
- Pipe and Excavation Contracting, Dave Roberts, 2011, Craftsman Book Company, (800) 829-8123, www.craftsman-book.com/products.
- 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, www.psionlinestore.com, (866) 589-3088 (See order form at the end of the Candidate Information Bulletin.)
- Mississippi Standard Specifications for Road and Bridge Construction, 2004, Mississippi Department of Transportation - Construction Division, (601) 359-7301, www.gomdot.com
- State of Mississippi Regulation of Excavation, Chapter 13 Regulation of Excavations Near Underground Utility Facilities, https://www.ms811.org/law/
- Placing Reinforcing Bars, Recommended Practices, 2011 or later printing, 9th edition, Concrete Reinforcing Steel Institute, (800) 328-6306, www.crsi.org/
- Training and Certification of Field Personnel for Unbonded Post-Tensioning - Level 1 Field Fundamentals, 2003, 3rd Edition. Post Tensioning Institute. 1717 West Northern Avenue, Ste 114 Phoenix, AZ 85021 248.848.3180
- Design and Control of Concrete Mixtures, 15th or 16th Edition, 2016, Steven H. Kosmatka, William C. Panarese, Portland Cement Association, 5420 Old Orchard Road, Skokie, Il 60077-1083, 847-966-6200, http://members.cement.org/EBiz55/Bookstore/BookstoreHome.aspx
- SP-4 Formwork for Concrete, 2014, 8th Edition, David W. Johnston, American Concrete Institute, https://www.concrete.org/store.aspx

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HVAC

SCOPE OF WORK

All aspects of heating and cooling including fuel gas systems and appliances as well as associated equipment and ductwork.

# of Questions	% Required to Pass	Time Allowed
80	70	4 hours

CONTENT OUTLINE

Subject Area	# of Items

Piping	4
Insulation	1
Hangers and Supports	3
Sound, Vibration and Seismic Control	1
Heating and Cooling Principles	3
Refrigerants and Refrigeration	6
Load Calculations	10
Testing, Adjusting and Balancing	1
Controls	3
A/C and Heat Pump Equipment	4
Furnaces and Heaters	4
Chimneys, Flues and Vents	3
Combustion Air	2
Fuel Gas Systems	9
LP Gas Systems	5
Ducts	10
Boilers and Hydronics	4
Machine Room	1
Evaporative Cooling	2
Safety	4

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:

- Modern Refrigeration and Air Conditioning, Althouse, Turnquist, Bracciano, 20th, 21st, or 22nd edition, Goodheart-Willcox, www.g-w.com (Starting 8/1/2026 the 20th and 21st editions will no longer be used)
- 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, www.psionlinestore.com, (866) 589-3088 (See order form at the end of the Candidate Information Bulletin.)
- International Fuel Gas Code, 2021, International Code Council, (800) 786-4452, www.iccsafe.org.
- HVAC Duct Construction Standards, Metal and Flexible, 2005, 3rd edition, Sheet Metal and Air Conditioning Contractors' National Association, Inc., (703) 803-2980, www.smacna.org
- Manual N - Load Calculation for Small Commercial Buildings, Fifth Edition, 2008, Air Conditioning Contractors of America (ACCA), 2800 Shirlington Road, Suite 300, Arlington, VA 22206, (703) 575-4477, www.acca.org
- International Mechanical Code, 2021, International Code Council, 5203 Leesburg Pike, Suite 600 Falls Church, VA 22041, 7039314533, www.intlcode.org/
- NFPA 58 Liquefied Petroleum Gas Code 2020 Edition, 2001, National Fire Protection Association, 1 Batterymarch Park, Quincy, Massachusetts 02169, (800) 344-3555, www.nfpa.org
- ACCA Ductulator, Air Conditioning Contractors of America, 2800 Shirlington Road, Suite 300. Arlington, VA 22206, (703) 575-4477, www.acca.org
- Manual D, 2016, 3rd Ed, Air Conditioning Contractors of America, 2800 Shirlington Road, Suite 300. Arlington, VA 22206, (703) 575-4477, www.acca.org
- Pipefitters Handbook - 3rd Edition, 1967, Forrest R. Lindsey, Library of Congress #59-14725, Industrial Press, 200 Madison Avenue, NEW York, NY 10016, www.industrialpress.com
- 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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INSULATION

SCOPE OF WORK

Mechanical and Duct insulation work.

# of Questions	% Required to Pass	Time Allowed
30	70	1 hour

CONTENT OUTLINE

Subject Area	# of Items
Pipe Insulation	12
Duct Insulation	12
Safety	6

REFERENCE LIST

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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 editions of the Code book that are listed and that is the only edition allowed into the testing site.

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  OR
  Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI, with latest available amendments, www.psionlinestore.com, (866) 589-3088 (See order form at the end of the Candidate Information Bulletin.)
- International Mechanical Code, 2021, International Code Council, 5203 Leesburg Pike, Suite 600 Falls Church, VA 22041, 7039314533, www.intlcode.org/
- Commercial and Industrial Insulation Standards, 8th Edition, 2016, National Insulation Association, 99 Canal Center Plaza, Suite 222 Alexandria, Virginia 22314, (703) 683-6422 | Fax (703) 549-4838.

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IRRIGATION SYSTEMS

SCOPE OF WORK

Unlimited irrigation systems and related components.

# of Questions	% Required to Pass	Time Allowed
40	70	2 hours

CONTENT OUTLINE

Subject Area	# of Items
Piping and Valves	14
Layout, Plans and Specifications	10
Sprinkler Heads	6
Controls and wiring	6
Excavation, Compaction and Grading	2
Pumps	2

REFERENCE LIST

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This examination is OPEN BOOK.

The following reference materials are allowed in the examination center:

- Simplified Irrigation Design, 2nd Ed, 1995, Pete Melby, John Wiley and Sons, 605 Third Ave, New York, NY 10158, (201) 748-6000, www.wiley.com.

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LANDSCAPING

SCOPE OF WORK

Unlimited landscaping, planting and groundcover EXCLUDING irrigation.

# of Questions	% Required to Pass	Time Allowed
40	70	2 hours

CONTENT OUTLINE

Subject Area	# of Items
Trees and Shrubs	8
Grass and Groundcover	10
Drainage and Grading	7
Hardscaping	6
Regional Plants	5
Soils and Amendments	4

REFERENCE LIST

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This examination is OPEN BOOK.

The following reference materials are allowed in the examination center:

- Tough-As-Nails Flowers for the South, 2003 University Press of Mississippi 3825 Ridgewood Road, Jackson, MS 39211-6492, Phone #601-432-6205, 800-737-7788, Fax# 601-432-6217, or email press@ihl.state.ms.us.
- Landscape Construction, 2011, David Sauter, Delmar/Thomson Learning P.O. Box 6904, Florence, KY 41022-6904, www.delmar.com
-

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LATHING, PLASTERING AND STUCCO

SCOPE OF WORK

Installation of lath, plaster, drywall, stucco and associated work.

# of Questions	% Required to Pass	Time Allowed
45	70	2 hours

CONTENT OUTLINE

Subject Area	# of Items
Safety	5
Surface Preparation and Setup	10
Drywall	5
Stucco	5
Application and Installation	8
Base and Finish Coat	7
Plaster and Lathe	5

REFERENCE LIST

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This examination is OPEN BOOK.

The following reference materials are allowed in the examination center:

- Plastering Skills, 1984, F. Van Den Branden and Thomas L. Hartsell, 0-8269-0657-5, American Technical Publishers, Inc., 1115 W 175th St. Homewood, IL 60430
- 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, www.psionlinestore.com, (866) 589-3088 (See order form at the end of the Candidate Information Bulletin.)
- 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, rsmeans.reedconstructiondata.com
- Portland Cement Plaster (Stucco) Manual, Portland Cement Association, 5420 Old Orchard Road, Skokie, IL 60077

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 have the references confiscated and will be reported to the department. Furthermore, candidates are not permitted to bring in any additional papers (loose or attached) with their approved references. Any additional materials will be removed from the references

and confiscated. 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.

MARINE CONSTRUCTION

SCOPE OF WORK

Installation of lath, plaster, drywall, stucco and associated work.

# of Questions	% Required to Pass	Time Allowed
40	70	2 hours

CONTENT OUTLINE

Subject Area	# of Items
Safety	6
Miscellaneous Engineering – Pile Driving	18
Concrete	12
Concrete - Reinforcing Steel	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 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 editions of the Code book that are listed and that is the only edition allowed into the testing site.

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:

- 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, www.psionlinestore.com, (866) 589-3088 (See order form at the end of the Candidate Information Bulletin.)
- Construction Planning, Equipment, and Methods, 1995, 5th Edition, R.L. Peurifoy, McGraw-Hill Publishing, Inc., PO Box 545, Blacklick, OH 43004-0545
- Design and Control of Concrete Mixtures, Steven H. Kosmatka, William C. Panarese, 16th Edition, Portland Cement Association, 5420 Old Orchard Road, Skokie, IL 60077-1083, (847) 966-6200, www.portcement.org/bookstore
- Placing Reinforcing Bars, Recommended Practices, 2011 or later printing, 9th Edition, Author- 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/

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 have the references confiscated and will be reported to the department. Furthermore, candidates are not permitted to bring in any additional papers (loose or attached) with their approved references. Any additional materials will be removed from the references and confiscated. 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.

MASTER ELECTRICIAN

SCOPE OF WORK

Unlimited Electrical work.

Note: MS applicants taking the Master Electrician exam have a choice of trade exams. They can elect to take either the NASCLA Accredited Trade Examination for Electrical Contractors which is accepted by multiple state agencies or the MSBOC Master 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.

# of Questions	% Required to Pass	Time Allowed
80	70	3 hours

CONTENT OUTLINE

Subject Area	# of Items
General Electrical Knowledge	6
Service, Feeders, and Branch Circuits	10
Grounding and Bonding	7
Conductors and Cables	10
Raceways and Boxes	7
Special Occupancies and Equipment	7
Electrical Power	6
Motors	6
Low Voltage	2
Lighting	3
Illuminated Signs	2
Fire Detection and Alarm Systems 3	3
Safety Information	5
Overcurrent Protection	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 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 editions of the Code book that are listed and that is the only edition allowed into the testing site.

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:

- National Electrical Code, NEC, 2020, National Fire Protection Association, 1 Batterymarch Park, Quincy, Massachusetts 02169, (800) 344-3555, www.nfpa.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, www.psionlinestore.com, (866) 589-3088 (See order form at the end of the Candidate Information Bulletin.)
- Ugly's Electrical References, George V. Hart, 2011, 2014, or 2017 edition, Jones and Bartlett, (800) 832-0034, www.uglys.net

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 have the references confiscated and will be reported to the department. Furthermore, candidates are not permitted to bring in any additional papers (loose or attached) with their approved references. Any additional materials will be removed from the references and confiscated. 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.

MECHANICAL CONTRACTOR

SCOPE OF WORK

All aspects of heating, cooling, refrigeration and associated equipment piping and ductwork as well as plumbing work.

# of Questions	% Required to Pass	Time Allowed
100	70	4 hours

CONTENT OUTLINE

Subject Area	# of Items
Boilers and Hydronics	6
Gas Systems	10
Cleanouts	3
Plumbing Fixtures and Equipment	5
Water Heaters	2
Piping, valves, controls	5
Sheet Metal and Ducts	6
Water Supply	5
Hangers and Supports	4
Drain, Waste, and Vent	5
Backflow	2
Traps and Interceptors	4
Developed length	3
Isometric Analysis	8
Safety	4
Joints and Connections	3
General Plumbing Regulations	3
Fire Sprinklers	4
Refrigerants and Refrigeration	4
Heating and Cooling Principles	4
Load Calculations	5
Testing, Adjusting and Balancing	1
HVAC Equipment	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 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 editions of the Code book that are listed and that is the only edition allowed into the testing site.

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:

- Modern Refrigeration and Air Conditioning, Althouse, Turnquist, Bracciano, 20th, 21st, or 22nd edition, Goodheart-Willcox, www.g-w.com (Starting 8/1/2026 the 20th and 21st editions will no longer be used)
- 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, www.psionlinestore.com, (866) 589-3088 (See order form at the end of the Candidate Information Bulletin.)

- International Fuel Gas Code, 2021, International Code Council, (800) 786-4452, www.iccsafe.org
- HVAC Duct Construction Standards, Metal and Flexible, 2005, 3rd edition, Sheet Metal and Air Conditioning Contractors' National Association, Inc., (703) 803-2980, www.smacna.org
- Manual N - Load Calculation for Small Commercial Buildings, Fifth Edition, 2008, Air Conditioning Contractors of America (ACCA), 2800 Shirlington Road, Suite 300, Arlington, VA 22206, (703) 575-4477, www.acca.org
- International Mechanical Code, 2021, International Code Council, 5203 Leesburg Pike, Suite 600 Falls Church, VA 22041, 7039314533, www.intlcode.org/
- International Plumbing Code, 2021, International Code Council, 5203 Leesburg Pike, Suite 600 Falls Church, VA 22041, 7039314533, www.intlcode.org/
- NFPA 58 Liquefied Petroleum Gas Code 2020 Edition, 2001, National Fire Protection Association, 1 Batterymarch Park, Quincy, Massachusetts 02169, (800) 344-3555, www.nfpa.org
- NFPA 13: Installation of Sprinkler Systems, 2019, National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169, (800) 344-3555, www.nfpa.org
- ACCA Ductulator, Air Conditioning Contractors of America, 2800 Shirlington Road, Suite 300. Arlington, VA 22206, (703) 575-4477, www.acca.org
- Manual D, 2016 4th Ed, Air Conditioning Contractors of America, 2800 Shirlington Road, Suite 300. Arlington, VA 22206, (703) 575-4477, www.acca.org
- Pipefitters Handbook - 3rd Edition, 1967, Forrest R. Lindsey, Library of Congress #59-14725, Industrial Press, 200 Madison Avenue, NEW York, NY 10016, www.industrialpress.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 have the references confiscated and will be reported to the department. Furthermore, candidates are not permitted to bring in any additional papers (loose or attached) with their approved references. Any additional materials will be removed from the references and confiscated. 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.

MUNICIPAL

SCOPE OF WORK

Water and Sewer pipelines and plants, associated excavation, grading and paving.

# of Questions	% Required to Pass	Time Allowed
60	70	2 hours

CONTENT OUTLINE

Subject Area	# of Items
Excavation, Compaction and Grading	8
Safety	7
Steel	10
Concrete	15
General Knowledge	3
Underground Utilities-Concrete Pipe Installation	7
Underground Utilities-Ductile Pipe Installation	7
MS One-Call	3

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 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 editions of the Code book that are listed and that is the only edition allowed into the testing site.

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:

- The Contractor's Guide to Quality Concrete Construction - 4th Edition, 2018, American Concrete Institute, (248) 848-3700, www.concrete.org.
- Placing Reinforcing Bars, Recommended Practices, 2011 or later printing, 9th edition, Concrete Reinforcing Steel Institute, (800) 328-6306, www.crsi.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, www.psionlinestore.com, (866) 589-3088 (See order form at the end of the Candidate Information Bulletin.)
- DIPRA Installation Guide for Ductile Iron Pipe, 2015, Ductile Iron Pipe Research Association, www.dipra.org
- Concrete Pipe and Box Culvert Installation, 2007, American Concrete Pipe Association, (972) 506-7216, http://www.concrete-pipe.org/ysk_pdfs/installation_guide.pdf
- Pipe and Excavation Contracting, Dave Roberts, 2011, Craftsman Book Company, (800) 829-8123, www.craftsman-book.com/products.
- SP-4 Formwork for Concrete, 2014, 8th Edition, David W. Johnston, American Concrete Institute, https://www.concrete.org/store.aspx

- Training and Certification of Field Personnel for Unbonded Post-Tensioning - Level 1 Field Fundamentals, 2003, 3rd Edition. Post Tensioning Institute. 1717 West Northern Avenue, Ste 114 Phoenix, AZ 85021 248.848.3180
- 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,
- State of Mississippi Regulation of Excavation, Chapter 13 Regulation of Excavations Near Underground Utility Facilities, https://www.ms811.org/law/

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 have the references confiscated and will be reported to the department. Furthermore, candidates are not permitted to bring in any additional papers (loose or attached) with their approved references. Any additional materials will be removed from the references and confiscated. 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 CONTRACTORS

Effective through 12/31/2026

MS Applicants taking the Master Electricians exam have a choice of trade exams. They can elect to take the NASCLA Accredited Trade Examination for Electrical Contractors which is accepted by multiple state agencies or the MSBOC Master Electricians state specific exam.

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.

SCOPE OF WORK

# of Questions	% Required to Pass	Time Allowed
100	75	270 Minutes

CONTENT OUTLINE

Subject Area	# of Items
Project Design & Management	8
Safety	9
Electrical Theory and Principles	11
General Code Requirements	17
Wiring and Protection	17
Wiring Methods & Materials	16
General Equipment Use	13
Special Occupancies, Special Equipment, and Special Conditions	8
Communication Systems	1

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 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 editions of the Code book that are listed and that is the only edition allowed into the testing site.

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:

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 Ed)

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NASCLA ACCREDITED TRADE EXAMINATION FOR ELECTRICAL CONTRACTORS

Effective through 1/1/2027

Definition of an Electrical Contractor (Master Electrician/Unlimited Electrician): One who conducts business in the installation, maintenance and repair of electrical work conforming to applicable standards and codes.

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

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

# of Questions	Minimum Passing Score	Time Allowed
100	75	270 Minutes

CONTENT OUTLINE

Subject Area	# of Items
Project Documents	5
Safety	5
Electrical Theory & Principles	6
General Code Requirements	11
Wiring & Protection	22
Wiring Methods & Materials	14
Equipment for General Use	20
Special Occupancies, Special Equipment & Special Conditions	15
Communication Systems	2

EXPERIMENTAL ITEMS

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.

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 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 editions of the Code book that are 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.

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 Association, (617) 770-3000, http://www.nfpa.org, 2020: ISBN 978-1455922970; 2023: ISBN 978-1455930340*

***Code of Federal Regulations - 29 CFR 1926 - OSHA Construction Industry Regulations**, 2024, https://www.osha.gov/laws-regs/regulations/standardnumber/1926, ISBN 978-1663802439*

***Code of Federal Regulations - 29 CFR 1910 - OSHA Occupational Safety and Health Standards**, 2024, IBSN-13: 979-888+212041, https://www.osha.gov/laws-regs/regulations/standardnumber /1910.*

***NASCLA Contractors Guide to Business, Law and Project Management**, Basic 14th Ed., ISBN: 978-1-948558-39-6, National Association of State Contractors Licensing Agencies (NASCLA), http://www.nascla.org*

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

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

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

Optional References

The following references may also be used by candidates during the test process. There must be no marks, highlights, or tabs in the references, or they will not be allowed in the test center. NASCLA does not attest as to the accuracy of these references; candidates are forewarned to use them at their own risk. No test questions are based on the information found in these references; NASCLA will not respond to any item challenges based on the information in these 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)*

**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.

PLUMBING

SCOPE OF WORK

Unlimited commercial and residential plumbing NOT including fuel gas or boiler systems.

# of Questions	% Required to Pass	Time Allowed
70	70	3 hours

CONTENT OUTLINE

Subject Area	# of Items
General Plumbing Regulations	4
Safety	4
Cleanouts	4
Fixtures and Equipment	5
Water Heaters	2
Piping, valves, controls	3
Water Supply	6
Hangers and Supports	3
Drain, Waste, and Vent	15
Backflow	3
Traps and Interceptors	4
Developed length	2
Isometric Analysis	12
Joints and Connections	3

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 Plumbing Code, 2021, International Code Council, 5203 Leesburg Pike, Suite 600 Falls Church, VA 22041, 7039314533, www.intlcode.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, www.psionlinestore.com, (866) 589-3088 (See order form at the end of the Candidate Information Bulletin.)
- Mathematics for Plumbers and Pipefitters, Lee Smith, 8th Edition, 2013, www.cengage.com.

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are not allowed and must be removed from the reference before the exam will begin.

PROCESS PIPING

SCOPE OF WORK

Specialized and industrial piping installation and maintenance, including associated components.

# of Questions	% Required to Pass	Time Allowed
50	70	2 hours

CONTENT OUTLINE

Subject Area	# of Items
Joining Methods	10
Pipe Fitting	7
Safety	7
Reading Drawings	2
Codes	5
Materials and Components	8
Process Equipment	4
Insulation	2
Pipe Supports	3
Line Labeling	2

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 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 editions of the Code book that are listed and that is the only edition allowed into the testing site.

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:

- ASME A13.1: Scheme for the Identification of Piping Systems, 2015, American Society of Mechanical Engineers Three Park Avenue, New York, NY 10065 (800) 843-2763 www.asme.org
- ASME B31.1-2001 Power Piping, ASME Code for Pressure Piping, 2014, American Society of Mechanical Engineers Three Park Avenue, New York, NY 10065 (800) 843-2763 www.asme.org
- ASME B31.3-2002 Process Piping, 2014, ASMEAmerican Society of Mechanical Engineers Three Park Avenue, New York, NY 10065 (800) 843-2763 www.asme.org
- Facility Piping Systems Handbook, 2010, 3rd edition, www.mcgraw-hill.com.
- Modern Welding, 2013, 11th Edition, Althouse/Turnquist/Bowditch 978-1-60525-795-2, The Goodheart-Willcox Company, Inc., 18604 West Creek Dr., Tinley Park, IL 60477-6243, (800) 323-0440, www.g-w.com
- Pipefitters Handbook, 1967, Forrest R. Lindsey, Industrial Press 200 Madison Avenue, New York, NY 10016 8885287852, 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, www.psionlinestore.com, (866) 589-3088 (See order form at the end of the Candidate Information Bulletin.)

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REFRIGERATION

SCOPE OF WORK

Unlimited commercial and industrial refrigeration.

# of Questions	% Required to Pass	Time Allowed
50	70	2 hours

CONTENT OUTLINE

Subject Area	# of Items
Refrigeration and Refrigerants	15
Piping and Tubing	6
Components	10
Controls, Valves and Wiring	9
Tests, Inspections and Maintenance	6
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 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

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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 Mechanical Code, 2021, International Code Council, 5203 Leesburg Pike, Suite 600 Falls Church, VA 22041, 7039314533, www.intlcode.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, www.psionlinestore.com, (866) 589-3088 (See order form at the end of the Candidate Information Bulletin.)
- Industrial Refrigeration Handbook, Wilbert F. Stoecker, 1995, McGraw-Hill
- Modern Refrigeration and Air Conditioning, Althouse, Turnquist, Bracciano, 20th, 21st, or 22nd edition, Goodheart-Willcox, www.g-w.com (Starting 8/1/2026 the 20th and 21st editions will no longer be used)

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REMODELING

SCOPE OF WORK

Unlimited (structural) remodeling and repair work, and roof coverings.

# of Questions	% Required to Pass	Time Allowed
60	70	135 minutes

CONTENT OUTLINE

Content Area	# Items Test
Safety	6
Windows and Doors	3
Rough Carpentry	11
Finish Carpentry	11
Siding	3
Drywall	2
Concrete	7
Masonry	7
Roofing – Residential and Commercial	10

REFERENCE LIST

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  Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI, with latest available amendments, www.psionlinestore.com, (866) 589-3088 (See order form at the end of the Candidate Information Bulletin.)
- *Carpentry and Building Construction*, 2010 or 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.craftsman-book.com
- International Building Code, 2021, International Code Council, 5203 Leesburg Pike, Suite 600 Falls Church, VA 22041, 7039314533, www.intlcode.org/
- Design and Control of Concrete Mixtures, 16th Edition, 2016, Steven H. Kosmatka, William C. Panarese, Portland Cement Association, 5420 Old Orchard Road, Skokie, Il 60077-1083, 847-966-6200, http://members.cement.org/EBiz55/Bookstore/BookstoreHome.aspx
- Modern Masonry - Brick, Block, Stone, Clois E. Kicklighter, 8th edition (2015). The Goodheart-Willcox Company, (800) 323-0440, www.g-w.com

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RESIDENTIAL BUILDER

SCOPE OF WORK

Residential 1 and 2 family not over 3 stories.

# of Questions	% Required to Pass	Time Allowed
80	70	3 hours

CONTENT OUTLINE

Subject Area	# of Items
Site work, Footings and Foundations	13
Concrete and Concrete Reinforcement	8
Masonry	4
Carpentry	15
Associated Trades and Drywall	6
Roofing	7
Estimating, Plan Reading and General Code Requirements	18
OSHA Safety	5
Licensing	4

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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/lawsregs/regulations/standardnumber/1926
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- The Contractor's Guide to Quality Concrete Construction - 4th Edition, 2018, American Concrete Institute, (248) 848-3700, www.concrete.org.
- Modern Masonry - Brick, Block, Stone, Clois E. Kicklighter, 8th edition (2015). The Goodheart-Willcox Company, (800) 323-0440, www.g-w.com
- Carpentry and Building Construction, 2010 or 2016 (Student Edition), John L. Feirer and Mark D. Feirer, McGraw-Hill, www.mheducation.com
- 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/buildingcomponent-safety-information-bcsi
- Pipe and Excavation Contracting, Dave Roberts, 2011, Craftsman Book Company, (800) 829-8123, www.craftsman-book.com/products.
- Roofing Construction & Estimating -, 1995, Daniel Atcheson, 1-57218-007-2, Craftsman Book Company, P.O. Box 6500, Carlsbad, CA 92018, www.craftsmanbook.com/cbcstore/

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RESIDENTIAL HVAC

SCOPE OF WORK

# of Questions	% Required to Pass	Time Allowed
80	70	4 hours

CONTENT OUTLINE

Subject Area	# of Items
Insulation	3
Hangars and Supports	3
Sound, Vibration & Seismic Control	1
Heating and Cooling Principles	6
Refrigerants	4
Load Calculations	6
Testing, Adjusting and Balancing	1
Controls	4
A/C and Heat Pump Equipment	6

Furnaces and Heaters	5
Chimneys, Flues and Vents	3
Combustion Air	3
Ducts	14
Ventilation and Exhausts	3
Safety	2
Fuel Gas	5
LP Gas	4
Fuel Oil	2
Piping	5

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  OR
  Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI, with latest available amendments, www.psionlinestore.com, (866) 589-3088 (See order form at the end of the Candidate Information Bulletin.)
- Manual J - Residential Load Calculation, Manual J, Air Conditioning Contractors of America, 2800 Shirlington Road, Suite 300. Arlington, VA 22206, (703) 575-4477, www.acca.org, ISBN 1892765012
- I International Mechanical Code, 2021, International Code Council, 5203 Leesburg Pike, Suite 600 Falls Church, VA 22041, 7039314533, www.intlcode.org/
- ACCA Ductulator, Air Conditioning Contractors of America, 2800 Shirlington Road, Suite 300. Arlington, VA 22206, (703) 575-4477, www.acca.org
- Modern Refrigeration and Air Conditioning, Althouse, Turnquist, Bracciano, 20th, 21st, or 22nd edition, Goodheart-Willcox, www.g-w.com (Starting 8/1/2026 the 20th and 21st editions will no longer be used)
- HVAC Duct Construction Standards, Metal And Flexible – 4th edition, 2020, SMACNA, 4201 Lafayette Center Drive, Chantilly, VA 20151-1209, www.smacna.org/bookstore/ (703) 803-2980
- Fuel Gas Code, 2018 edition, International Code Council, 800-786-4452, www.iccsafe.org
- Residential Oil Burners, 4th Edition, 2018, Herb Weinberger, Delmar/Thomson Learning, P.O. Box 6904, Florence, KY 41022-6904, (800) 347-7707, www.delmar.com/delmar.html, ISBN 0827350139

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RESIDENTIAL ELECTRICIAN

SCOPE OF WORK

# of Questions	% Required to Pass	Time Allowed
60	70	3 hours

CONTENT OUTLINE

Subject Area	# of Items
General Electrical Knowledge	13
Services, Feeders, and Branch Circuits	15
Overcurrent Protection	5
Grounding and Bonding	6
Conductors and Cables	5
Raceways and Boxes	4
Lighting	4
Specialty	4
Safety	4

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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, www.psionlinestore.com, (866) 589-3088 (See order form at the end of the Candidate Information Bulletin.)

- National Electrical Code, NEC, 2020, National Fire Protection Association, 1 Batterymarch Park, Quincy, Massachusetts 02169, (800) 344-3555, www.nfpa.org
- International Residential Code for One- and Two-Family Dwellings, 2021, International Code Council, (800) 786-4452, www.iccsafe.org.
- Ugly's Electrical References, George V. Hart, 2017, Jones and Bartlett, (800) 832-0034, www.uglys.net.

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RESIDENTIAL PLUMBING

SCOPE OF WORK

# of Questions	% Required to Pass	Time Allowed
80	70	4 hours

CONTENT OUTLINE

Subject Area	# of Items
General Plumbing Knowledge and Regulations	15
Piping, Valves, and Controls	6
Fixtures and Equipment	4
Water Supply	4
Drain, Waste and Vent and Sewers	17
Isometric Analysis	9
Safety	4
Specialty Applications	6
Fuel Gas	5
LP Gas	3
Fuel Oil	2
Piping	5

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OR
Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI, with latest available amendments, www.psionlinestore.com, (866) 589-3088 (See order form at the end of the Candidate Information Bulletin.)
- International Plumbing Code, 2021, International Code Council, 5203 Leesburg Pike, Suite 600 Falls Church, VA 22041, 7039314533, www.intlcode.org/
- Fuel Gas Code, 2018 edition, 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.

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RESIDENTIAL REMODELER

SCOPE OF WORK

# of Questions	% Required to Pass	Time Allowed
50	70	150 Minutes

CONTENT OUTLINE

Subject Area	# of Items
Safety	5

Windows and Doors	4
Rough Carpentry	11
Finish Carpentry	6
Associated Trades	6
Concrete	5
Masonry	5
Residential Roofing	8

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- Finish Carpenter's Manual, Jim Tolpin, 1993, Craftsman Book Company, (800) 829-8123, www.craftsmanbook.com
- 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
- International Residential Code for One- and Two-Family Dwellings, 2021, International Code Council, (800) 786-4452, www.iccsafe.org.
- The Contractor's Guide to Quality Concrete Construction - 4th Edition, 2018, American Concrete Institute, (248) 848-3700, www.concrete.org.
- Modern Masonry - Brick, Block, Stone, Clois E. Kicklighter, 8th edition (2015). The Goodheart-Willcox Company, (800) 323-0440, www.g-w.com

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RESIDENTIAL ROOFER

SCOPE OF WORK

Residential 1 and 2 family not over 3 stories.

# of Questions	% Required to Pass	Time Allowed
60	70%	2 hours

CONTENT OUTLINE

Subject Area	# of Items
Materials	18
Installation of Roof Coverings	21
Roof Drainage	6
Rooftop Structures	9
Safety	6

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- International Residential Code for One- and Two-Family Dwellings, 2021, International Code Council, (800) 786-4452, www.iccsafe.org.
- Roofing Construction & Estimating -, 1995, Daniel Atcheson, 1-57218-007-2, Craftsman Book Company, P.O. Box 6500, Carlsbad, CA 92018, www.craftsman-book.com/cbcstore/
- 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
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Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI, with latest available amendments, www.psionlinestore.com, (866) 589-3088 (See order form at the end of the Candidate Information Bulletin.)

- NRCA Roofing Manual: Steep Slope Roof Systems, 2025, The National Roofing Contractors Association, (847) 299-9070, www.nrca.net
- International Building Code, 2021, International Code Council, 5203 Leesburg Pike, Suite 600 Falls Church, VA 22041, 7039314533, www.intlcode.org/

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ROOFING, SHEET METAL AND SIDING

SCOPE OF WORK

Unlimited Roofing and Siding installation and repair.

# of Questions	% Required to Pass	Time Allowed
60	70	2 hours

CONTENT OUTLINE

Subject Area	# of Items
Safety	6
Roofing - Substrate	8
Roofing - Steep	17
Roofing Repairs	4
Roofing - Elastomeric	7
Roofing - Built - up Bituminous	7
Siding - General Knowledge	8
Sheet Metal and Flashing	3

REFERENCE LIST

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- 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
- 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, www.psionlinestore.com, (866) 589-3088 (See order form at the end of the Candidate Information Bulletin.)
- Standard Practice for Installation of Rigid Poly(Vinyl Chloride) (PVC) Siding and Soffit - ASTM D 4756 - 96, 2006, American Society for Testing and Materials, 100 Barr Harbor Drive West Conshocken, PA 194282959, 6108329585, www.astm.org
- Roofing Construction and Estimating, Daniel Atcheson, 1995, Craftsman Book Company
- *Carpentry and Building Construction*, 2010 or 2016 (Student Edition), John L. Feirer and Mark D. Feirer, McGraw-Hill, www.mheducation.com
- International Building Code, 2021, International Code Council, 5203 Leesburg Pike, Suite 600 Falls Church, VA 22041, 7039314533, www.intlcode.org/

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SIGN ERECTION

SCOPE OF WORK

Sign wiring, installation and erection.

# of Questions	% Required to Pass	Time Allowed
50	70	2 hours

CONTENT OUTLINE

Subject Area	# of Items
Electrical	30
Safety	10
Installation	10

REFERENCE LIST

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- 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
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  Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI, with latest available amendments, www.psionlinestore.com, (866) 589-3088 (See order form at the end of the Candidate Information Bulletin.)
- Engineering Sign Structures: An Introduction to Analysis and Design, 2006, Benjamin Jones, ST Publications, 407 Gilbert Avenue, Cincinatti, OH 45202, www.stpubs.com
- Neon Installation Guide, 2002, Northeast States Sign Association, Northeast States Sign Council, 532 Ashley Falls Rd., Canaan, CT 06018, www.neoninstallationguide.com

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SOLAR

SCOPE OF WORK

Solar Construction scope of work: Unlimited solar and photovoltaic systems - residential, commercial and industrial.

# of Questions	% Required to Pass	Time Allowed
80	70	200 minutes

CONTENT OUTLINE

Subject Area	# of Items
Swimming Pools a. Site Survey and Collector Orientation b. Pool and Spa heating systems c. Installing Solar Collectors d. Piping Systems e. Attaching System Plumbing Components f. Connecting Electrical Control Systems g. Activating, Inspecting, and Troubleshooting Systems h. Demonstrating System Operation to Owners i. Complying with Safety Procedures and Building Codes	15
Domestic Hot Water a. Site Survey and Collector Orientation b. Solar Domestic Hot Water Systems c. Installing Solar Water Heating Systems d. Piping Systems e. Addressing Problems Caused by Water Conditions f. Installing Components Unique to Indirect (Closed Loop) Systems g. Commissioning Systems h. Servicing Systems i. Demonstrating System Operation to Owners j. Using Tools and Equipment k. Connecting Electrical Control Systems l. Complying with Safety Procedures and Building Codes	25
Photovoltaics a. Site Survey and Module Orientation b. Photovoltaic Systems to Meet End-use Requirements c. Designing Grid Tied Systems d. Designing Stand Alone/Non-grid Connected Systems e. Designing with Hybrid Systems f. Installing Photovoltaic Systems g. Commissioning Systems	40

h. Using Photovoltaic Tools and Equipment i. Maintaining PV Systems j. Complying with Safety Procedures and Building Codes	

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:

- Solar Water and Pool Heating Design and Installation Manual, 2006, Florida Solar Energy Center, 1679 Clearlake Road, Cocoa, FL 32922-5703, (321) 638-1015, http://www.nabcep.org/wp-content/uploads/2013/08/FSEC_Solar_Water_and_Pool_Heating_Manual.pdf
- International Plumbing Code, 2021, International Code Council, 5203 Leesburg Pike, Suite 600 Falls Church, VA 22041, 7039314533, www.intlcode.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, www.psionlinestore.com, (866) 589-3088 (See order form at the end of the Candidate Information Bulletin.)
- National Electrical Code, NEC, 2020, National Fire Protection Association, 1 Batterymarch Park, Quincy, Massachusetts 02169, (800) 344-3555, www.nfpa.org
- Photovoltaic Systems, 3rd Edition, 2011, James Dunlap, American Technical Publishers, Orland Park, IL 60467-5756, www.atplearning.com
- The Easy Guide to Solar Electric Part II Installation Manual, 2001, Adi Pieper, Adi Solar 209 Arroyo Salado, Santa Fe, NM 87508 www.adisolar.com
- Uniform Solar Energy Code, 2018, International Association of Plumbing and Mechanical Officials, (IAPMO), 5001 East Philadelphia Street, Ontario, CA 91761-2816, www.iapmo.org

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STRUCTURAL STEEL

SCOPE OF WORK

Placement and Installation of Structural and Reinforcing Steel.

# of Questions	% Required to Pass	Time Allowed
60	70	2 hours

CONTENT OUTLINE

Subject Area	# of Items
Post-tensioning	10
Reinforcing Steel	10
Safety - OSHA Subpart R	7
Safety - General	6
Steel Decks	7
Steel Joists and Girders	20

REFERENCE LIST

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The following reference materials are allowed in the examination center:

- 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,

www.psionlinestore.com, (866) 589-3088 (See order form at the end of the Candidate Information Bulletin.)
- Training and Certification of Field Personnel for Unbonded Post-Tensioning - Level 1 Field Fundamentals, 2003, 3rd Edition. Post Tensioning Institute. 1717 West Northern Avenue, Ste 114 Phoenix, AZ 85021 248.848.3180
- Placing Reinforcing Bars, Recommended Practices, 2011 or later printing, 9th edition, Concrete Reinforcing Steel Institute, (800) 328-6306, www.crsi.org/
- 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
- Manual of Construction with Steel Deck, 2016, Steel Deck Institute, P.O. Box 25, Fox River Grove, Il 60021, www.sdi.org

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SWIMMING POOLS

SCOPE OF WORK

Unlimited pool and spa installation, maintenance and servicing, except for solar pool heating.

# of Questions	% Required to Pass	Time Allowed
60	70	2 hours

CONTENT OUTLINE

Subject Area	# of Items
Filtration/Circulation Systems	14
Maintenance and Operation	12
Accessories and Associated Trades	8
Concrete, Shotcrete and Gunite	10
Design	16

REFERENCE LIST

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This examination is OPEN BOOK.

The following reference materials are allowed in the examination center:

- Guide to Shotcrete, 2016 or 2022 American Concrete Institute, 2488483700, www.concrete.org
- The Contractor's Guide to Quality Concrete Construction - 4th Edition, 2018, American Concrete Institute, (248) 848-3700, www.concrete.org.
- The Ultimate Pool Maintenance Manual: Spas, Pools, Hot Tubs, Rockscapes and Other Water Features, 2007, Terry Tamminen, 0-07-136239-8, McGraw-Hill, P.O. Box 182605, Columbus, OH 43218-2605, www.McGraw-hill.com
- ANSI/NSPI-1 Standard for Public Swimming Pools, 2014, National Spa and Pool Institute, 2111 Eisenhower Avenue, Alexandria, VA 22314
- ANSI/NSPI-5 American National Standard for Residential Inground Swimming Pools, 2011, National Spa and Pool Institute, 2111 Eisenhower Avenue, Alexandria, VA 22314
- ANSI/NSPI-2 Standard for Public Spas, 1999, National Spa and Pool Institute, 2111 Eisenhower Avenue, Alexandria, VA 22314
- ANSI/NSPI-3 - Standard for Permanently Installed Residential Spas, 2014, National Spa and Pool Institute, 2111 Eisenhower Avenue, Alexandria, VA 22314
- Pool and Spa Operator Handbook, 2014, National Swimming Pool Foundation, 10803 Gulfdale Suite 300, San Antonio, TX 78216, (516) 623-3447, www.nspf.com,
- Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and Other Recreational Water Facilities (NSF/ANSI/CAN 50-2023) https://webstore.ansi.org/standards/nsf/nsfansi502023e

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TILE AND MARBLE

SCOPE OF WORK

Surface preparation and application of stone, ceramic or similar materials.

# of Questions	% Required to Pass	Time Allowed
40	70	1 hour and 30 minutes

CONTENT OUTLINE

Subject Area	# of Items
Surface Preparation	12
Installation and Adhesives	22
Grout and Finishing	6

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The following reference materials are allowed in the examination center:

- Setting Tile, 1995, John Byrne, The Taunton Press 63 South Main St., P.O. Box 5506, Newtown, CT 06470-5506, 2034268171 2034263434
- Builders Guide to Floors, McGraw-Hill P.O. Box 182605, Columbus, OH 43218-2605 8003383937 6147593644
- ANSI A108/A118/A136.1:2017, American National Standard Specifications for the Installation of Ceramic Tile, 2017, American National Standards Institute, 1899 L Street NW, Washington, DC 20036, 212-642-4980 https://webstore.ansi.org/standards/tca/ansia108a118a1362017
- Craft Training for the Tile Professional - Tub Surrounds, National Tile contractors Association P.O. Box 13629, Jackson, Mississippi 39236, 601-939-2071 601-932-6117
- Tilesetting Workbook (TILE)

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TRANSMISSION/DISTRIBUTION LINES

SCOPE OF WORK

Underground and Overhead electrical transmission lines.

# of Questions	% Required to Pass	Time Allowed
50	70	2 hours

CONTENT OUTLINE

Subject Area	# of Items
Transformers	6
Electrical Knowledge	5
Conductors	5
Overhead Lines	7
Underground Lines	4
Equipment and Safety	8
Grounding Methods	3
Service Drops and Laterals	4
Poles and Structures	4
Electric Supply Stations	4

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This examination is OPEN BOOK.

The following reference materials are allowed in the examination center:

- National Electrical Safety Code 2017, Institute of Electrical Electronics Engineers, Inc., 345 East 47th Street, New York, NY 10017-2394
- National Electrical Code, NEC, 2020, National Fire Protection Association, 1 Batterymarch Park, Quincy, Massachusetts 02169, (800) 344-3555, www.nfpa.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, www.psionlinestore.com, (866) 589-3088 (See order form at the end of the Candidate Information Bulletin.)

- Lineman's and Cableman's Handbook, Shoemaker and Mack, 13th Edition, 14th Edition, McGraw Hill, 800-262-4729, shop.mcgraw-hill.com
- Ugly's Electrical References, George V. Hart, 2011, 2014, or 2017 edition, Jones and Bartlett, (800) 832-0034, www.uglys.net

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UNDERGROUND UTILITIES

SCOPE OF WORK

Water, sewer and gas pipelines plus exvcavation, grading and paving.

# of Questions	% Required to Pass	Time Allowed
50	70	2 hours

CONTENT OUTLINE

Subject Area	# of Items
Safety-Code of Federal Regulations	6
General Knowledge	4
Underground Utilities-Concrete Pipe Installation	9
Underground Utilities-Ductile Pipe Installation	9
Excavating and Grading	7
Welding	4
Underground Utilities -- Gas	8
MS One-Call	3

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  Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI, with latest available amendments, www.psionlinestore.com, (866) 589-3088 (See order form at the end of the Candidate Information Bulletin.)
- DIPRA Installation Guide for Ductile Iron Pipe, 2015, Ductile Iron Pipe Research Association, www.dipra.org
- Concrete Pipe and Box Culvert Installation, 2007, American Concrete Pipe Association, (972) 506-7216, http://www.concrete-pipe.org/ysk_pdfs/installation_guide.pdf
- Pipe and Excavation Contracting, Dave Roberts, 2011, Craftsman Book Company, (800) 829-8123, www.craftsman-book.com/products
- State of Mississippi Regulation of Excavation, Chapter 13 Regulation of Excavations Near Underground Utility Facilities, https://www.ms811.org/law/
- ASME Code for Pressure Piping - B31.8 - Gas Transmission and Distribution Piping Systems, 2018, American Society of Mechanical Engineers, Three Park Avenue, New York, NY 10065, (800) 843-2763, www.asme.org
- Pipe Welding Procedures, Hoobasar Rampaul, 2003, Industrial Press, 200 Madison Ave., New York, NY 10016

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WELDING

SCOPE OF WORK

Unlimited Welding Work.

# of Questions	% Required to Pass	Time Allowed
60	70	2 hours

CONTENT OUTLINE

Subject Area	# of Items
Oxyacetylene Welding and Cutting	11

Blueprint and Plan Reading	6
Brazing	5
Pipe Welding	6
Materials	10
SMAW	9
GTAW	9
Testing and Inspection	4

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The following reference materials are allowed in the examination center:

- Modern Welding, 2013, 11th Edition, Althouse/Turnquist/Bowditch/Bowditch/Bowditch, 978-1-60525-795-2, The Goodheart-Willcox Company, Inc., 18604 West Creek Dr., Tinley Park, IL 60477-6243, (800) 323-0440, www.g-w.com
- Pipe Welding Procedures, 2003, Hoobasar Rampaul, 0-8311-1100-3, Industrial Press, 200 Madison Avenue, New York, NY 10016, www.industrialpress.com

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LICENSE APPLICATION INSTRUCTIONS

- Upon passing the examination and meeting all the licensing requirements, the Board will review applications on a weekly basis. Successful candidates will receive their Certificate of Responsibility or Residential Builder's License approximately one week after approval by the Board.
- The Board will only review applications that are complete and include the examination scores.

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☐	Carpentry and Building Construction
☐	NASCLA Contractors Guide to Business, Law and Project Management - Mississippi
☐	Fire Alarm Signaling Systems
☐	NFPA 70 - National Electrical Code
☐	NFPA 72 - National Fire Alarm Code
☐	NFPA 13: Installation of Sprinkler Systems
☐	NFPA 17: Standard for Dry Chemical Extinguishing Systems
☐	NFPA 25: Inspection, Testing and Maintenance of Water-Based Fire Protection Systems
☐	Landscape Construction
☐	Landscaping Principles and Practices
☐	Lineman's and Cableman's Handbook
☐	The Ultimate Pool Maintenance Manual: Spas, Pools, Hot Tubs, Rockscapes and Other Water Features
☐	Low Voltage Wiring Security/Fire Alarm Systems
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☐	Mathematics for Plumbers and Pipefitters
☐	International Building Code
☐	International Plumbing Code
☐	International Mechanical Code
☐	International Fuel Gas Code
☐	International Residential Code
☐	Design and Control of Concrete Mixtures
☐	Pipe and Excavation Contracting
☐	Ugly's Electrical References