



PSI Services LLC
<https://test-takers.psiexams.com/alcon>

STATE OF ALABAMA GENERAL CONTRACTORS

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/alcon>

EXAMINATIONS BY PSI

This Candidate Information Bulletin provides you with information about the examination and application process for becoming licensed as a contractor in the State of Alabama.

Alabama State law requires contractors to be licensed and regulated by the Licensing Board for General Contractors. Eligibility for examination is determined by the Board.

The Licensing Board has contracted with PSI licensure:certification (PSI) to conduct its examination program. PSI provides examinations through a network of computer examination centers in Alabama. 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 form from:

Licensing Board for General Contractors
445 Dexter Avenue, Suite 3060
Montgomery, Alabama 36104
(334) 272-5030 Ext 226 • Fax: (334) 395-5336
www.genconbd.state.al.us

2. Complete the application and return it to the State.
3. If the State approves your application, PSI will mail you the Candidate Information Bulletin, which contains an examination registration form and instructions for selecting an examination date.

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

PSI
(855) 257-1619
<https://test-takers.psiexams.com/alcon>

EXAMINATION REGISTRATION AND SCHEDULING PROCEDURES

ELIGIBILITY AND 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.

- All eligibilities are valid for 1 year from the date that the application is received by the state. If you do not pass the examination within the 1-year period, you must reapply with the state.
- You may take the examination an unlimited number of times during the 1-year period.

\$96 per examination

\$106 per examination only for: AL Building Construction (Commercial), AL Highways and Streets Contractor, AL Municipal and Utility Contractor, AL Heavy Railroad Construction.

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/alcon>. Internet registration is available 24 hours a day.

Log onto PSI's website and select *Sign in / Create Account*. Select *Create Account*. You are now be 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. If you have problems, contact PSI at (855) 257-1619 for help.

TELEPHONE

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

PSI registrars are available at (855) 257-1619, Monday through Friday between 6:30 am and 9:00 pm, and Saturday-Sunday between 8:00 am and 4:30 pm, Central Time, to receive your payment and schedule your appointment for the examination.

SCHEDULING AN APPOINTMENT TO TAKE THE EXAMINATION

Once you have made payment for your examination services, you are ready to schedule your examination. It is important to remember that you are responsible for contacting PSI to schedule your 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, or Saturday/Sunday between 8:00 am and 4:30 pm, Central Time. If space is available in the examination site of your choice, you may schedule an examination 1 day prior to the examination date of your choice, up to 6:00 pm Central Time. Please be prepared to offer alternate examination appointment choices.

Note: only the candidate may schedule an appointment through a CSR, not a friend or relative.

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. You may use the PSI Website or call PSI at (855) 257-1619.

Note: 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.

for your re-examination.

MISSED APPOINTMENT OR LATE CANCELLATION

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

- Do not cancel your appointment 2 days before the 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) 257-1619. Every effort will be made to reschedule your examination at a convenient time as soon as possible. You may also check our website at <https://test-takers.psiexams.com/alcon>.

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 centers listed below:

Birmingham (Vestavia Hills)
100 Centerview Drive, Suite 100
Vestavia Hills, AL 35216

Huntsville
4900 University Square, Suite 4
Huntsville, AL 35816

Mobile
Dorsey Center
6051-B Airport Blvd.
Mobile, AL 36608

Montgomery
500 Interstate Park Drive, Suite 530
Montgomery, Alabama, 36109

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

REPORTING TO THE EXAMINATION SITE

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

REQUIRED IDENTIFICATION AT EXAMINATION SITE

You must provide 1 form of identification. It must be a VALID form of government issued identification (driver's license, state ID, passport), which bears your signature and has your photograph. The identification provided must match the name when scheduling.

If you cannot provide the required identification, you must call (855) 257-1619 at least 3 weeks prior to your scheduled appointment to arrange a way to meet this security requirement. *Failure to provide all of the required identification at the time of the examination without notifying PSI is considered a missed appointment, and you will not be able to take the examination.*

SECURITY PROCEDURES

The following security procedures will apply during the examination:

- Only non-programmable calculators that are silent, battery-operated, do not have paper tape printing capabilities, and do not have a keyboard containing the alphabet will be allowed in the examination site.
- Candidates may take only approved items into the examination room.
- All personal belongings of candidates, with the exception of close-fitting jackets or sweatshirts, 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, including coats, shawls, heavy jackets, or overcoats.

- **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.**
- 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.

TUTORIAL

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

TEST QUESTION SCREEN

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

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

NASCLA ACCREDITED

For the Building Construction Examination (Commercial) PSI administers the NASCLA-Accredited Examination for Commercial Building Contractors. PSI is a NASCLA-Approved Provider of Examinations.

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.

EXAMINATION REVIEW

PSI, in cooperation with the Alabama Licensing Board for General Contractors, 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 clicking on the Comments key on the function bar of the test question screen.

These comments will be analyzed by PSI examination development staff. PSI does not respond to individuals regarding these comments, all substantive comments are reviewed. **This is the only review of examination materials available to candidates.**

SCORE REPORTING

Your result will be given to you immediately following completion of the examination and a score report will be emailed to you. You can print the score report from your online account.

- **On screen** - your result 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 result 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.
 - 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.

Now you can take the practice exam online at <https://test-takers.psiexams.com/alcon> 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 CONTENT OUTLINES

BUSINESS & LAW EXAMINATION (FORMERLY GENERAL CONTRACTOR EXAMINATION) (Required of all general contractors)

# of Questions	Minimum Passing Score	Time Allowed
50	70%	120 Minutes

CONTENT OUTLINE

Subject Area	# of Items
Licensing	8
Estimating and Bidding	5
Liens	2
Financial	5
Payroll and Taxes	6
Personnel and Labor	5
Project Management	3
Contracts	6
Business Organization	2
Risk Management	4
Safety Recordkeeping and Environmental	4

REFERENCE LIST

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

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

This examination is OPEN BOOK.

The following reference material is allowed in the examination center:

- NASCLA Contractors Guide to Business Law and Project Management, Alabama General - 3rd edition. National Association of State Contractors Licensing Agencies

(NASCLA), 23309 N. 17th Dr., Phoenix, AZ 85027, (623) 587-9354, Fax (623) 587-9625, www.nascla.org

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

NASCLA-ACCREDITED EXAMINATION - COMMERCIAL GENERAL BUILDING CONTRACTOR

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

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

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

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 later editions of references as they become available. For Code questions, the examinations will be based **only** on the edition of the Code book that is listed.

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

This examination is OPEN BOOK.

The following reference materials are allowed in the examination center.

- Mechanical and Electrical Systems for Construction Managers, 4th Edition, 2024, American Technical Publishers, 10100 Orland Parkway, Suite 200 Orland Park, IL 60467-5756; 800-323-3471 <https://www.atplearning.com/product/2317/mechanical-and-electrical-systems-for-construction-managers>
- ICC A117.1-2017 Standard for Accessible and Usable Buildings and Facilities; International Code Council; 500 New Jersey Avenue, NW 6th Floor, Washington, DC 20001; [P] 888-ICC-SAFE (888-422-7233); [F] (202) 783-2348; International: (202) 370-1800; www.ansi.org; <https://shop.iccsafe.org/icc-a117-1-2017-standard-and-commentary-accessible-and-usable-buildings-and-facilities-1.html>
- BCSI: Guide to Good Practice for Handling, Installing, Restraining, and Bracing of Metal Plate Connected Wood Trusses, 2018 (Updated March 2020), OR 2025 edition. Structural Building Components Association and Truss Plate Institute, (608) 274-4849, <https://www.sbcindustry.com/building-component-safety-information-bcsi>
- Carpentry and Building Construction, 2016 edition, John L. Feirer and Mark D. Feirer, Publisher: McGraw-Hill, <http://www.contractorsseminars.com>, 828-277-3999
- Code of Federal Regulations - 29 CFR Part 1926 (OSHA), with latest available amendments, U.S. Government Printing Office, (866) 512-1800. Online version: <https://www.osha.gov/laws-regulations/regulations/standardnumber/1926>; This may also be purchased from various vendors including Amazon.
- OR
- Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI, with latest available amendments, 3210 E Tropicana, Las Vegas, NV 89121, (855) 557-0619, <https://test-takers.psiexams.com/mscontlb>
- Construction Jobsite Management, 2017, 4th edition OR 2024, 5th edition. William R. Mincks, Hal Johnston, Delmar/Thomson Learning, PO Box 6904, Florence, KY 41022-6904, Phone (800) 347-7707, Fax (800) 487-8488, <https://www.amazon.com/Construction-Jobsite-Management-William-Mincks/dp/130508179X>
- Construction Project Management, 2014, 4th edition OR 2022, 5th edition. Frederick Gould, Nancy Joyce, Pearson Education, Inc. publishing as Prentice Hall, One Lake Street, Upper Saddle River NJ, 07458, 800-848-9500, <https://www.amazon.com/Construction-Project-Management-Frederick-Gould/dp/0132877244>
- *NASCLA Contractors Guide to Business, Law and Project Management*, Basic 14th Edition, National Association of State Contractors Licensing Agencies (NASCLA), Telephone: (623) 587-9354, www.nascla.org
- Erectors' Manual - Standards and Guidelines for the Erection of Pre-Cast Concrete Products, 1999, 2nd Edition, Publisher- Precast/Prestressed Concrete Institute (PCI), 209 W. Jackson Blvd, Chicago, IL 60606-6938, Phone (312) 786-0300, <https://www.amazon.com/Erectors-manual-Standards-guidelines-erection/dp/0937040568>
- Green Building Fundamentals, Michael Montoya, 2011, 2nd edition, Pearson Education Publishing, ISBN-10: 0-13-511108-0, Pearson Publishing, <https://www.amazon.com/Green-Building-Fundamentals-Mike-Montoya/dp/0135111080>
- Gypsum Construction Handbook, 7th edition, 2014, United States Gypsum Company (USG), RS Means Publishing, 700 Longwater Drive, Norwell, MA 02061, 800-334-3509, Fax: 800-632-6732, https://www.rsmeans.com/products/books/reference-books/commercial-construction/the-gypsum-construction-handbook-7th-edition.aspx?gclid=EA1a1QobChMlh5Pn_byG6AVIONkCh1TzgUQEAQYBCABEgLABvD_BwE
- Technical Digest No. 9 - Handling and Erection of Steel Joists and Joist Girders, 3rd Edition, 2008, Steel Joist 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 (2019): Building Code Requirements for Structural Concrete and Commentary, American Concrete Institute, (248) 848-3700, <https://www.concrete.org/store/productdetail.aspx?iteMid=318U14&Language=English>
- 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, 2019, 10th edition OR 2024, 11th edition. **After March 6, 2026, only the 2024, 11th edition is to be used.** 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.

BUILDING CONTRACTOR UNDER FOUR STORIES

# of Questions	Minimum Passing Score	Time Allowed
90	70% (63 correct)	230 Minutes

CONTENT OUTLINE

Subject Area	# of Items
Sitework, Footings and Foundation	8

Concrete and Concrete Reinforcement	8
Metals	5
Masonry	6
Carpentry	16
Roofing	10
General Code and Construction Knowledge	20
Associated Trades	10
OSHA Safety	7

REFERENCE LIST

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

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

This examination is OPEN BOOK.

The following reference material is allowed in the examination center:

- *Code of Federal Regulations - 29 CFR Part 1926 (OSHA), with latest available amendments, U.S. Government Printing Office, (866) 512-1800 or https://www.osha.gov/pls/oshaweb/owastand.display_standard_group?p_toc_level=1&p_part_number=1926 OR *Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI*, with latest available amendments, www.psionlinestore.com, (866) 589-3088 (See order form at the end of the Candidate Information Bulletin.)*
- *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>*
- *Carpentry and Building Construction, 2010 or 2016 (Student Edition), John L. Feirer and Mark D. Feirer, McGraw-Hill, www.mheducation.com*
- *The Contractor's Guide to Quality Concrete Construction, 2005, 3rd Edition, 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*
- *Pipe and Excavation Contracting, Dave Roberts, 2011, Craftsman Book Company, (800) 829-8123, www.craftsman-book.com/products*
- *Gypsum Construction Handbook, 7th edition, 2014, United States Gypsum Company (USG), RS Means Publishing, 700 Longwater Drive, Norwell, MA 02061, 800-334-3509, Fax: 800-632-6732, rsmeans.reedconstructiondata.com*
- *Technical Digest No. 9 - Handling and Erection of Steel Joists and Joist Girders, 3rd Edition, 2008, Steel Joist Institute, 234 W. Cheves Street, Florence, SC 29501, Phone: (843) 407-4091, Fax (843) 407-4044, www.steeljoist.org*
- *SDI Manual of Construction with Steel Deck, 2006, Steel Deck Institute, (847) 458-4647, www.sdi.org*

- *International Energy Conservation Code*, 2018, International Code Council, (800) 786-4452, www.iccsafe.org
- *International Building Code*, 2021, International Code Council, (800) 786-4452, www.iccsafe.org
- *International Residential Code for One- and Two-Family Dwellings*, 2021, International Code Council, (800) 786-4452, www.iccsafe.org
- ACI 530/530.1-11 or ACI 530/530.1-13 (2011 or 2013): *Building Code Requirements and Specification for Masonry Structures and Companion Commentaries*, American Concrete Institute, (248) 848-3700, www.concrete.org
- ACI 318-11 or ACI 318-14 (2011 or 2014): *Building Code Requirements for Structural Concrete and Commentary*, American Concrete Institute, (248) 848-3700, www.concrete.org

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CARPENTRY AND FRAMING CONTRACTOR

# of Questions	Minimum Passing Score	Time Allowed
60	70% (42 correct)	180 Minutes

CONTENT OUTLINE

Subject Area	# of Items
Estimating and Plan Reading	9
Layout	7
Walls	14
Floors and Stairs	13
Roofs	12
OSHA Safety	5

REFERENCE LIST

The reference materials listed below were used to prepare the questions for this examination. The examination may also contain questions based on trade knowledge or general industry practices.

Except for Code books, you can base your answers on later editions of references as they become available. For Code questions, the examinations will be based only on the edition of the Code book that is listed.

Candidates may use a silent, non-printing, non-programmable calculator in the examination center. Candidates will also be provided with a magnifying glass upon request.

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:

- *International Building Code*, 2021, International Code Council, (800) 786-4452, www.iccsafe.org
- *International Residential Code for One- and Two-Family Dwellings*, 2021, International Code Council, (800) 786-4452, www.iccsafe.org
- Carpentry and Building Construction, 2010 or 2016 (Student Edition), John L. Feirer and Mark D. Feirer, McGraw-Hill, www.mheducation.com
- *Code of Federal Regulations - 29 CFR Part 1926 (OSHA)*, with latest available amendments, U.S. Government Printing Office, (866) 512-1800 or https://www.osha.gov/pls/oshaweb/owastand.display_standard_group?p_toc_level=1&p_part_number=1926
OR
Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI, with latest available amendments, www.psionlinestore.com, (866) 589-3088 (See order form at the end of the Candidate Information Bulletin.)

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.

COMMERCIAL SWIMMING POOL CONTRACTOR

# of Questions	Minimum Passing Score	Time Allowed
50	70% (35 correct)	150 Minutes

CONTENT OUTLINE

Subject Area	# of Items
Plan Reading and Estimating	3
Sitework and Excavating	9
Forming and Reinforcing	9
Concrete	8
Shotcrete	8
Pool Equipment, Including ADA (No Plumbing or Electric)	8
Safety, Including CFR, Pool and Security Fencing	5

REFERENCE LIST

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This examination is OPEN BOOK.

The following reference material is allowed in the examination center:

- *International Building Code*, 2021, International Code Council, (800) 786-4452, www.iccsafe.org
- *-Family Dwellings*, 2021, International Code Council, (800) 786-4452, www.iccsafe.org
- *International Swimming Pool and Spa Code*, 2021; International Code Council, <https://shop.iccsafe.org>
- *Code of Federal Regulations - 29 CFR Part 1926 (OSHA)*, with latest available amendments, U.S. Government Printing Office, (866) 512-1800 or https://www.osha.gov/pls/oshaweb/owastand.display_standard_group?p_toc_level=1&p_part_number=1926
OR
Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI, with latest available amendments, www.psionlinestore.com, (866) 589-3088 (See order form at the end of the Candidate Information Bulletin.)
- *Certified Pool-Spa Operators Handbook*, 2006, National Swimming Pool Foundation, 10803 Gulfdale Suite 300, San Antonio, TX 78216, (516) 623-3447, www.nspf.com
- *Design and Control of Concrete Mixtures*, Steven H. Kosmatka and William C. Panarese, 16th Edition, Portland Cement Association, (847) 966-6200, www.cement.org
- *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/>
- *Guide to Shotcrete*, 2016 or 2022, American Concrete Institute, (248) 848-3700, www.aci-int.org
- *Pipe and Excavation Contracting*, Dave Roberts, 2011, Craftsman Book Company, (800) 829-8123, www.craftsman-book.com/products

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.

CONCRETE CONTRACTOR

# of Questions	Minimum Passing Score	Time Allowed
60	70% (42 correct)	150 Minutes

CONTENT OUTLINE

Subject Area	# of Items
Estimating and Plan Reading	10
Layout and Excavation	12
Formwork	8
Reinforcing Steel	8
General Concrete	16
Safety	6

REFERENCE LIST

The reference materials listed below were used to prepare the questions for this examination. The examination may also contain questions based on trade knowledge or general

industry practices. Except for Code books, you can base your answers on later editions of references as they become available. For Code questions, the examinations will be based **only** on the edition of the Code book that is listed.

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This examination is OPEN BOOK.

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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/pls/oshaweb/owastand.display_standard_group?p_toc_level=1&p_part_number=1926
OR
Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI, with latest available amendments, www.psionlinestore.com, (866) 589-3088 (See order form at the end of the Candidate Information Bulletin.)
- *Design and Control of Concrete Mixtures*, Steven H. Kosmatka and William C. Panarese, 16th Edition, Portland Cement Association, (847) 966-6200, www.cement.org
- *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/>
- *Guide to Shotcrete*, 2016 or 2022, American Concrete Institute, (248) 848-3700, www.aci-int.org
- *Pipe and Excavation Contracting*, Dave Roberts, 2011, Craftsman Book Company, (800) 829-8123, www.craftsman-book.com/products
- *International Building Code*, 2021, International Code Council, (800) 786-4452, www.iccsafe.org
- *International Residential Code for One- and Two-Family Dwellings*, 2021, International Code Council, (800) 786-4452, www.iccsafe.org
- *SP-4 Formwork for Concrete*, 2014, 8th Edition, David W. Johnston; American Concrete Institute; <https://www.concrete.org/store>
- *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/>
- *ACI 318-11 or ACI 318-14 (2011 or 2014): Building Code Requirements for Structural Concrete and Commentary*, American Concrete Institute, (248) 848-3700, www.concrete.org

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.

CONCRETE PAVEMENT CONTRACTOR

# of Questions	Minimum Passing Score	Time Allowed
100	70% (70 correct)	240 Minutes

CONTENT OUTLINE

Subject Area	# of Items
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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
Al One Call	3

REFERENCE LIST

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This examination is OPEN BOOK.

The following reference material is allowed in the examination center:

- *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/>
- *Code of Federal Regulations - 29 CFR Part 1926 (OSHA)*, with latest available amendments, U.S. Government Printing Office, (866) 512-1800 or https://www.osha.gov/pls/oshaweb/owastand.display_standard_group?p_toc_level=1&p_part_number=1926
OR
Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI, with latest available amendments, www.psionlinestore.com, (866) 589-3088 (See order form at the end of the Candidate Information Bulletin.)
- *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, Hoobasbar Rampaul, Industrial Press, www.amazon.com.
- *Hot Mix Asphalt Paving Handbook (MAPH-2)*, 2000, 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
- *Technical Digest No. 9 - Handling and Erection of Steel Joists and Joist Girders*, 3rd Edition, 2008, Steel Joist Institute, 234 W. Cheves Street, Florence, SC 29501, Phone: (843) 407-4091, Fax (843) 407-4044, www.steeljoist.org.
- *ASME Code for Pressure Piping - B31.8 - Gas Transmission and Distribution Piping Systems*, 2014, American Society of Mechanical Engineers, Three Park Avenue, New York, NY 10065, (800) 843-2763, www.asme.org

- *Instructional Manual for Training and Certification of Steel Personnel for Unbonded Post-Tensioning*. 2003, Post Tensioning Institute, (248) 848-3180, www.post-tensioning.org.
- *Concrete Pipe & Box Culvert Installation*, 2007 edition, American Concrete Pipe Association, 1303 West Walnut Hill Lane, Suite 305, Irving, Texas 75308-7216, www.concrete-pipe.org
- *Design and Control of Concrete Mixtures*, Steven H. Kosmatka, 16th Edition, Portland Cement Association, <http://members.cement.org>.
- *SP-4 Formwork for Concrete*, 2014, 8th Edition, David W. Johnston, American Concrete Institute, <https://www.concrete.org/store.aspx>
- *Alabama 1Call - Dig Safely*; AL Act 94-487 S.299; www.al1call.com

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CONVEYING CONTRACTOR

# of Questions	Minimum Passing Score	Time Allowed
40	70% (28 correct)	120 Minutes

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

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

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:

- *Contren Learning Series - Conveyors*, 0-13-873761-4, Prentice-Hall PTR, Upper Saddle River, New Jersey 07458, (800) 922-0579, www.phptr.com, www.phdirect.com
-OR-

Conveyors Module 15401-08, NCCER Millwright Level Four, www.nccer.org/ol/

- *Contren Learning Series - Troubleshooting and Repairing Conveyors*, 0-13-874025-9, Prentice-Hall PTR, Upper Saddle River, New Jersey 07458, (800) 922-0579, www.phptr.com, www.phdirect.com -OR- *Conveyors Troubleshooting and Repairing Conveyors Module 15402-08, NCCER Millwright Level Four*, www.nccer.org/ol/
- *Modern Welding*, 11th Edition, 2013, 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/pls/oshaweb/owastand.display_standard_group?p_toc_level=1&p_part_number=1926 OR *Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI*, with latest available amendments, 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 B20.1-2012 Safety Standard for Conveyors and Related Equipment*

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).

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DOORS, WINDOWS, AND GLASS WITH SPECIALTY HARDWARE CONTRACTOR

# of Questions	Minimum Passing Score	Time Allowed
60	70% (42 correct)	150 Minutes

CONTENT OUTLINE

Subject Area	# of Items
General Glazing	10
Glass Systems	10
Metal Framing	4
Plastics / Acrylics	3
Sealant Installations	3
Safety	4
Code Requirements	6
Doors and Frames	10
Hardware	6
Special Doors	2

Overhead Garage Doors

2

REFERENCE LIST

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- *International Building Code*, 2021, International Code Council, (800) 786-4452, www.iccsafe.org
- *International Residential Code for One- and Two-Family Dwellings*, 2021, International Code Council, (800) 786-4452, www.iccsafe.org
- *Carpentry and Building Construction*, 2010 or 2016 (Student Edition), John L. Feirer and Mark D. Feirer, McGraw-Hill, www.mheducation.com
- *Glass Installer Reference Manual*, 2002 or 2005, National Glass Association, www.icontractor.net
- *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

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DRAINAGE AND CULVERT CONTRACTOR

# of Questions	Minimum Passing Score	Time Allowed
30	70% (21 correct)	75 Minutes

CONTENT OUTLINE

Subject Area	# of Items
Earthwork/Surveying	8
Concrete	5

Curbs and Gutters	5
Culverts	3
One Call	5
Heavy Equipment/Safety	4

REFERENCE LIST

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This examination is OPEN BOOK.

The following reference material is allowed in the examination center:

- *Alabama 1Call - Dig Safely; AL Act 94-487 S.299; www.al1call.com*
- *Code of Federal Regulations - 29 CFR Part 1926 (OSHA), with latest available amendments, U.S. Government Printing Office, (866) 512-1800 or https://www.osha.gov/pls/oshaweb/owastand.display_st andard_group?p_toc_level=1&p_part_number=1926*
OR
Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI, with latest available amendments, www.psionlinestore.com, (866) 589-3088 (See order form at the end of the Candidate Information Bulletin.)
- *Design and Control of Concrete Mixtures, Steven H. Kosmatka, 16th Edition, Portland Cement Association, <http://members.cement.org>.*
- *Pipe and Excavation Contracting, Dave Roberts, 2011, Craftsman Book Company, (800) 829-8123, www.craftsman-book.com/products*
- *Design and Construction of Urban Storm Water Management Systems, 1992 American Society of Civil Engineers, www.asce.org*

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DRAINAGE, IRRIGATION AND FLOOD CONTROL CONTRACTOR

# of Questions	Minimum Passing Score	Time Allowed
45	70% (32 correct)	120 Minutes

CONTENT OUTLINE

Subject Area	# of Items
Sitework	11

Concrete	10
Curbs and Gutters	4
Culverts	3
One Call	3
Heavy Equipment/Safety	4
Irrigation	10

REFERENCE LIST

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- *Alabama 1Call - Dig Safely; AL Act 94-487 S.299; www.al1call.com*
- *Code of Federal Regulations - 29 CFR Part 1926 (OSHA), with latest available amendments, U.S. Government Printing Office, (866) 512-1800 or https://www.osha.gov/pls/oshaweb/owastand.display_st andard_group?p_toc_level=1&p_part_number=1926*
OR
Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI, with latest available amendments, 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*
- *Simplified Irrigation Design, Pete Melby, 1995, 2nd edition, John Wiley and Sons, Inc., (201) 748-6000, www.wiley.com*
- *Design and Control of Concrete Mixtures, Steven H. Kosmatka, 16th Edition, Portland Cement Association, <http://members.cement.org>.*
- *Design and Construction of Urban Storm Water Management Systems, 1992 American Society of Civil Engineers, www.asce.org*

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ELEVATOR AND ESCALATOR CONTRACTOR

# of Questions	Minimum Passing Score	Time Allowed
50	70% (35 correct)	120 Minutes

CONTENT OUTLINE

Subject Area	# of Items
Wire Rope	2
Clearance and Space Limits	6
Electrical	6
Testing	3
Engineering and Inspection	5
Safety Devices	8
Controls	3
Operating Limitations	2
Drive Mechanisms	3
Fire Service	3
Maintenance and Repairs	5
Escalators and Dumbwaiter	2
Emergency Power	2

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 material is allowed in the examination center:

- **ASME A17.1 - Safety Code for Elevators and Escalators**, 2000, 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**, 2002, National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169, (800) 344-3555, www.nfpa.org
- **ASME A17.5: Elevator and Escalator Electrical Equipment**, National Fire Protection Association, 2014, 1 Batterymarch Park, Quincy, MA 02169, (800) 344-3555, www.nfpa.org
- **National Electrical Code**, NEC, 2020, National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169, (800) 344-3555, www.nfpa.org
- **National Elevator Manufacturing Industry's Installation Manual**, 2000, Elevator World, 356 Morgan Avenue, Mobile, Ala 36660
- **ASME A17.1b 2003 Addenda to ASME A17.1-2000, Safety Code for Elevators and Escalators**, National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169, (800) 344-3555, www.nfpa.org

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EROSION CONTROL AND MOWING CONTRACTOR

# of Questions	Minimum Passing Score	Time Allowed
40	70% (28 correct)	120 Minutes

CONTENT OUTLINE

Subject Area	# of Items
Trees and Shrubs	8
Grass and Ground Cover	10
Drainage and Grading	7
Hardscaping	6
Regional Plants	5
Soils and Amendments	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 material is allowed in the examination center:

- **Landscaping Principles and Practices**, 2009 (7th edition), Jack E. Ingels, www.delmar.com.
- **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, press@ihl.state.ms.us, press@ihl.state.ms.us>, upress.state.ms.us
- **Landscape Construction**, 2011, David Sauter, Delmar/Thomson Learning, P.O. Box 6904, Florence, KY 41022-6904, 800-347-7707, www.delmar.com/delmar.html.

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FOUNDATIONS, PILINGS, AND COFFERDAMS WITH RETAINING WALLS CONTRACTOR

# of Questions	Minimum Passing Score	Time Allowed
50	70% (35 correct)	130 Minutes

CONTENT OUTLINE

Subject Area	# of Items
Excavation and Grading	8
Piles	4
Concrete	6
Metals including Concrete Reinforcement	5
Heavy Equipment / Safety	4
One Call	3
Erosion and Sedimentation Control	6
Tunneling	4
Concrete Formwork	4
Pre-Cast Pre-Stressed Concrete Erecting	6

REFERENCE LIST

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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.)
- **Construction Planning, Equipment, and Methods**, 7th Edition, Peurifoy, Robert L., www.amazon.com.
- **Pipe and Excavation Contracting**, Dave Roberts, 2011, Craftsman Book Company, (800) 829-8123, www.craftsman-book.com/products
- **Design and Control of Concrete Mixtures**, Steven H. Kosmatka, 16th Edition, Portland Cement Association, <http://members.cement.org>.
- **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, <http://www.crsi.org>
- **Instructional Manual for Training and Certification of Field Personnel for Unbonded Post-Tensioning**, 3rd Edition, 2003, Post Tensioning Institute, (248) 848-3180, www.post-tensioning.org
- **Jacked Tunnel Design and Construction**, 1998, Boscardin, Marco D., American Society of Civil Engineers, 1801 Alexander Bell Drive, Reston, VA 20191-4400, (800) 548-2723, www.asce.org
- **Alabama 1Call - Dig Safely**; AL Act 94-487 S.299; www.al1call.com

- **Storm Water Management for Construction Activities**, 1992, Environmental Protection Agency, (202) 272-0167, www.epa.gov/npdes/pubs/owm0307.pdf
- **SP-4 Formwork for Concrete**, 2014, 8th Edition, David W. Johnston, American Concrete Institute, <https://www.concrete.org/store.aspx>
- **Erectors' Manual - Standards and Guidelines for the Erection of PreCast Concrete Products**, 2nd Edition, 1999, Precast/Prestressed Concrete Institute (PCI), (312) 786-0300, info@pci.org

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.

GAS AND OIL PROJECTS CONTRACTOR

# of Questions	% Required to Pass	Time Allowed
50	70 (35 Correct)	120 Minutes

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 later editions of references as they become available. For Code questions, the examinations will be based **only** on the edition of the Code book that is listed.

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

This examination is OPEN BOOK.

The following reference materials are allowed in the examination center:

- **NFPA 30, Flammable and Combustible Liquids Code**, 2015 or earlier, 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**, 2015 or earlier, 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 (RP100) 2017*., Petroleum Equipment Institute, (918) 494-9696, www.pei.org
- *Recommended Practices for Installation of Aboveground Storage Systems for Motor-Vehicle Fueling (RP200)*, 2013, Petroleum Equipment Institute, (918) 494-9696, www.pei.org
- *RP400 Electrical Continuity Recommended Procedure for Testing of Electrical Continuity of Fuel-Dispensing Hanging Hardware*, Petroleum Equipment Institute P.O. Box 2380, Tulsa, OK 74101-2380, USA info@pei.org Tel: (918) 494-9696 Fax: (918) 491-9895
- *Petroleum Equipment Lexicon: The definitive dictionary of terms used in petroleum marketing operations*. Petroleum Equipment Institute P.O. Box 2380, Tulsa, OK 74101-2380, USA 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/pls/oshaweb/owastand.display_standard_group?p_toc_level=1&p_part_number=1926 OR *Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI*, with latest available amendments, 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
- *Alabama 1Call - Dig Safely*; AL Act 94-487 S.299; www.al1call.com

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HARD TILE AND STONE CONTRACTOR

# of Questions	% Required to Pass	Time Allowed
50	70 (35 Correct)	120 Minutes

CONTENT OUTLINE

Subject Area	# of Items
General Knowledge	4
Plan Reading	4
Exterior Tile Installation	4
Tile Cutting and Drilling	2
Indoor Tile Installation	15
Shower Pans (Including Seats, Shelves, Accessories, and Troubleshooting)	10
Shower or Tub Installation	3
Tile and Marble Restoration	2
Safety and Employee Protection	6

REFERENCE LIST

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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/pls/oshaweb/owastand.display_standard_group?p_toc_level=1&p_part_number=1926 OR *Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI*, with latest available amendments, www.psionlinestore.com, (866) 589-3088 (See order form at the end of the Candidate Information Bulletin.)
- *Builders Guide to Floors*, 1997, Peter Fleming, McGraw-Hill, PO Box 543, Blacklick, OH 43004, (800) 334-7344, www.books.mcgraw-hill.com
- *Setting Tile*, 1995, John Byrne, The Taunton Press, 63 South Main St., PO Box 5506, Newtown, CT 06470, (203) 426-8171, www.taunton.com/store/
- *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>
- *Handbook for Ceramic, Glass, and Stone Tile Installation*, 2017, Tile Council of North America, 100 Clemson Research Blvd., Anderson, SC 29625, <https://www.tcnatile.com>

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HEAVY RAILROAD CONSTRUCTION CONTRACTOR

# of Questions	% Required to Pass	Time Allowed
50	70% (35 Correct)	120 Minutes

CONTENT OUTLINE

Subject Area	# of Items
Erosion and Sedimentation Control	2
Track Construction	5
Concrete Railway Structures	3
Safety	7

Sitework	5
One Call	2
Estimating	2
Welding	2
Tunneling	3
Concrete	7
Metals Including Concrete Reinforcement	3
Piles	5
Pre-Cast and Pre-Stressed Concrete Erecting	4

REFERENCE LIST

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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/pls/oshaweb/owastand.display_standard_group?p_toc_level=1&p_part_number=1926 OR **Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI**, with latest available amendments, www.psionlinestore.com, (866) 589-3088 (See order form at the end of the Candidate Information Bulletin.)
- **Alabama 1Call - Dig Safely**; AL Act 94-487 S.299; www.al1call.com
- **Storm Water Management for Construction Activities**, 1992, Environmental Protection Agency, (202) 272-0167, www.epa.gov/npdes/pubs/owm0307.pdf
- **49 CFR Part 213 - Track Safety Standards**; Part 214 - Railroad Workplace Safety; and Part 236 - Rules, Standards, and Instructions Governing the Installation, Inspection, Maintenance, and Repair of Signal and Train Control Systems, Devices, and Appliances, <http://www.access.gpo.gov/nara/cfr/cfr-table-search.html#page1>
- **The Practical Guide to Railway Engineering**, 3rd Edition, 2019, Division of Coastal Management, NC Department of Environmental Resources, Raleigh, NC, www.arema.org/practical_guide.htm
- **Field Handbook for Concrete Railway Structures**, American Railway Engineering and Maintenance of Way Association (AREMA), 8201 Corporate Drive, #1125, Landover, MD 20785, (301) 459-3200, www.arema.org/pubs/pubs.htm
- **Pipe and Excavation Contracting**, Dave Roberts, 2011, Craftsman Book Company, (800) 829-8123, www.craftsman-book.com/products
- **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, Concrete Reinforcing Steel Institute, 933 North Plum Grove Rd, Schaumburg, IL 60173, Phone (800) 328-6306, <http://www.crsi.org/>
- **Erectors' Manual - Standards and Guidelines for the Erection of PreCast Concrete Products**, 2nd Edition, 1999, Precast/Prestressed Concrete Institute (PCI), (312) 786-0300, info@pci.org
- **Construction Planning, Equipment, and Methods**, 7th Edition, 2005, Peurifoy, Robert L., P.E., McGraw-Hill, P.O. Box 182605, Columbus, OH 43218-2605, (800) 338-3987, www.McGraw-hill.com

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.

HIGHWAYS AND STREETS CONTRACTOR

# of Questions	% Required to Pass	Time Allowed
80	70% (56 Correct)	220 Minutes

CONTENT OUTLINE

Subject Area	# of Items
Paving-Asphalt	16
Piles	5
Excavation and Grading	12
Concrete Paving	3
Safety	5
One-Call	3
Traffic Control	2
Concrete	8
Metals including Concrete Reinforcement	6
Erosion and Sedimentation Control	6
Tunneling	8
Project Management and Estimating	6

REFERENCE LIST

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

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This examination is OPEN BOOK.

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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

CONTENT OUTLINE

Subject Area	# of Items
Bituminous Surface Treatments and Pavements	16
Traffic Control Devices	4
Portland Cement Surface Treatments and Pavements	5
Heavy Equipment / Safety	5

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/pls/oshaweb/owastand.display_standard_group?p_toc_level=1&p_part_number=1926*

OR

Code of Federal Regulations - 29 CFR Part 1926

Selections by PSI, with latest available amendments, www.psionlinestore.com, (866) 589-3088 (See order form at the end of the Candidate Information Bulletin.)

- *Asphalt in Pavement Maintenance (MS-16), 3rd edition, Asphalt Institute, (859) 288-4960, www.asphaltinstitute.org*
- *Hot-Mix Asphalt Paving Handbook, Carl L. Monismith, Rita B. Leahy, John A. Epps, 2000, American Association of State Highway Transportation Officials, (202) 624-5800, www.aashto.org*
- *Manual on Uniform Traffic Control Devices for Streets and Highways, 2003, US Department of Transportation - Federal Highway Administration, (202) 366-0537, <http://www.fhwa.dot.gov/>*
- *Design and Control of Concrete Mixtures, Steven H. Kosmatka, 15th Edition, 16th Edition, Portland Cement Association, <http://members.cement.org>.*

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.

HOT AND COLD ASPHALT PLANT MIX PAVING CONTRACTOR

# of Questions	% Required to Pass	Time Allowed
30	70% (21 Correct)	90 Minutes

INSULATION CONTRACTOR

# of Questions	Minimum Passing Score	Time Allowed
50	70% (35 correct)	120 Minutes

CONTENT OUTLINE

Subject Area	# of Items
General Knowledge and Theory	8
Plan Reading, Materials, Estimating, and Take-Offs	5
Spray-On Application	4
Batt/Roll Insulation	4
Blown or Loose-Fill Insulation (Includes Dense-Packing)	4
Rigid-Board and Reflective Insulation	2
Ventilation	5
Vapor Barrier and Retarders	4
Safety and Employee Protection	8
Other Insulation Applications	6

REFERENCE LIST

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This examination is OPEN BOOK.

The following reference material is allowed in the examination center:

- *International Residential Code for One- and Two-Family Dwellings*, 2021, International Code Council, (800) 786-4452, www.iccsafe.org
- *Code of Federal Regulations - 29 CFR Part 1926 (OSHA)*, with latest available amendments, U.S. Government Printing Office, (866) 512-1800 or https://www.osha.gov/pls/oshaweb/owastand.display_standard_group?p_toc_level=1&p_part_number=1926
OR
Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI, with latest available amendments, www.psionlinestore.com, (866) 589-3088 (See order form at the end of the Candidate Information Bulletin.)
- *Insulation Handbook*, 2001, Richard T. Bynum, Jr., McGraw-Hill, PO Box 543, Blacklick, OH 43004, (800) 334-7344, www.books.mcgraw-hill.com
- *Carpentry and Building Construction*, 2010 or 2016 (Student Edition), John L. Feirer and Mark D. Feirer, McGraw-Hill, www.mheducation.com

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

LATH AND PLASTER CONTRACTOR

# of Questions	Minimum Passing Score	Time Allowed
45	70% (32 correct)	120 Minutes

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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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:

- *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/pls/oshaweb/owastand.display_standard_group?p_toc_level=1&p_part_number=1926
OR
Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI, with latest available amendments, 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

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LOW VOLTAGE SPECIAL SYSTEMS (UNDER 50 VOLTS)

# of Questions	Minimum Passing Score	Time Allowed
50	70% (35 correct)	120 Minutes

CONTENT OUTLINE

Subject Area	# of Items
Grounding and Bonding	4
Conductors	4
Electrical Power Conditioning	2
Electrical and Electronic Knowledge	6
General Low Voltage	3
Sound and Video Systems	5
Intrusion Detection and Alarms	4
Fire Detection and Alarms	7
Computer and Data Systems	5
CCTV Systems	2
Testing Equipment	2
CATV and MATV Systems	2
Applied Systems Design	4

REFERENCE LIST

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This examination is OPEN BOOK.

The following reference material is allowed in the examination center:

- **NFPA 70 - National Electrical Code**, 2020, or The National Electrical Code Handbook, National Fire Protection Association (NFPA), (800) 344-3555, www.nfpa.org
- **NFPA 72 - National Fire Alarm Code**, 2019, National Fire Protection Association (NFPA), (800) 344-3555, www.nfpa.org
- **Low Voltage Wiring: Security/Fire Alarm Systems**, John E. Traister and Terry Kennedy, 2002, 3rd Edition, McGraw- Hill, (800) 262-4729, www.books.mcgraw-hill.com
- **Telecommunications Wiring**, Clyde Herrick, 2001, 3rd Edition, Prentice-Hall PTR, (800) 382-3419, www.prenhall.com
- **Understanding and Servicing Alarm Systems**, 1999, 3rd Edition, Butterworth-Heinemann (Reed Publishing), (800) 545-2522, www.bh.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

- **Antenna Toolkit**, Joe Carr, 2001, 2nd edition, Butterworth-Heinemann (Reed Publishing), (800) 545-2522, www.bh.com
- **Data, Voice, and Video Cabling**, Jim Hayes, Paul Rosenberg, 2009, 3rd Edition, Delmar Cengage Learning, (800) 347-7707, www.delmarlearning.com

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MARINE CONSTRUCTION CONTRACTOR

# of Questions	Minimum Passing Score	Time Allowed
50	70% (35 correct)	120 Minutes

CONTENT OUTLINE

Subject Area	# of Items
Safety	6
Miscellaneous Engineering - Pile Driving	25
Concrete	15
Concrete - Reinforcing Steel	4

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/pls/oshaweb/owastand.display_standard_group?p_toc_level=1&p_part_number=1926
OR
Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI, with latest available amendments, 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/>

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MASONRY CONTRACTOR

# of Questions	Minimum Passing Score	Time Allowed
60	70% (42 correct)	180 Minutes

CONTENT OUTLINE

Subject Area	# of Items
Estimating and Plan Reading	4
Unit Masonry	19
Mortar and Grout	16
Accessories	7
Stone	2
Tools	4
Restoration and Cleaning	4
Safety	4

REFERENCE LIST

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This examination is OPEN BOOK.

The following reference material is allowed in the examination center:

- *International Building Code*, 2021, International Code Council, (800) 786-4452, www.iccsafe.org
- *International Residential Code for One- and Two-Family Dwellings*, 2021, International Code Council, (800) 786-4452, www.iccsafe.org
- *Code of Federal Regulations - 29 CFR Part 1926 (OSHA)*, with latest available amendments, U.S. Government Printing Office, (866) 512-1800 or https://www.osha.gov/pls/oshaweb/owastand.display_standard_group?p_toc_level=1&p_part_number=1926
OR
Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI, with latest available amendments,

- www.psionlinestore.com, (866) 589-3088 (See order form at the end of the Candidate Information Bulletin.)
- *Modern Masonry - Brick, Block, Stone, Clois E. Kicklighter*, 8th edition (2015). The Goodheart-Willcox Company, (800) 323-0440, www.g-w.com
- *ACI 530/530.1-11 or ACI 530/530.1-13 (2011 or 2013): Building Code Requirements and Specification for Masonry Structures and Companion Commentaries*, American Concrete Institute, (248) 848-3700, www.concrete.org

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METAL BUILDING ERECTION CONTRACTOR

# of Questions	Minimum Passing Score	Time Allowed
40	70% (28 correct)	120 Minutes

CONTENT OUTLINE

Subject Area	# of Items
Sitework	3
Concrete	4
Concrete - Formwork	4
Concrete - Reinforcement	4
Masonry	4
Metal - Structural Framing	10
Insulation	3
Metal - Siding and Roofing	4
Safety	4

REFERENCE LIST

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- *International Building Code*, 2021, International Code Council, (800) 786-4452, www.iccsafe.org
- *International Residential Code for One- and Two-Family Dwellings*, 2021, International Code Council, (800) 786-4452, www.iccsafe.org
- *Code of Federal Regulations - 29 CFR Part 1926 (OSHA)*, with latest available amendments, U.S. Government Printing Office, (866) 512-1800 or https://www.osha.gov/pls/oshaweb/owastand.display_standard_group?p_toc_level=1&p_part_number=1926

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

OR

Code of Federal Regulations - 29 CFR Part 1926
Selections by PSI, with latest available amendments,
www.psionlinestore.com, (866) 589-3088 (See order form at the end of the Candidate Information Bulletin.)

- *Metal Building Systems Manual*, 2012, Metal Building Manufacturers Association, 1300 Summer Ave, Cleveland OH 44115, www.mhma.com
- *ASTM C 754 - Standard Specification for Installation of Steel Framing Members to Receive Screw-Attached Gypsum Panel Products*, 2011, American Society for Testing & Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959
- *ASTM C 1007 - Standard Specification for Installation of Load Bearing (Transverse and Axial) Steel Studs and Related Accessories*, 2011, American Society for Testing & Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959
- *The Contractor's Guide to Quality Concrete Construction, 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>
- *Energy Design Guidelines for Metal Building Systems*, 2010, Metal Building Manufacturers Association, 1300 Summer Ave, Cleveland OH 44115, www.mhma.com
- *Specifications for Structural Joints Using High-Strength Bolts*, Research Council on Structural Connections, 2009 <http://www.boltcouncil.org/files/2009RCSCSpecification.pdf>

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METAL STUD AND DRYWALL CONTRACTOR

# of Questions	Minimum Passing Score	Time Allowed
40	70% (28 correct)	120 Minutes

CONTENT OUTLINE

Subject Area	# of Items
Estimating and Plan Reading	6
Materials and Installation	19
Taping	4
Special Applications	6
Safety	5

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 material is 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/pls/oshaweb/owastand.display_standard_group?p_toc_level=1&p_part_number=1926
OR
Code of Federal Regulations - 29 CFR Part 1926
Selections by PSI, with latest available amendments, www.psionlinestore.com, (866) 589-3088 (See order form at the end of the Candidate Information Bulletin.)
- *International Building Code*, 2021, International Code Council, (800) 786-4452, www.iccsafe.org
- *International Residential Code for One- and Two-Family Dwellings*, 2021, International Code Council, (800) 786-4452, www.iccsafe.org
- *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

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MILLWORK AND FINISH CARPENTRY

# of Questions	Minimum Passing Score	Time Allowed
30	70% (21 correct)	90 Minutes

CONTENT OUTLINE

Subject Area	# of Items
Fabrication	6
Installation	5
Materials	5
Finishing	4
Hand Tools	3
Safety	3
Machines	2
Plans and Estimating	2

REFERENCE LIST

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

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MUNICIPAL AND UTILITY CONTRACTOR

# of Questions	Minimum Passing Score	Time Allowed
90	70 (63 correct)	220 Minutes

CONTENT OUTLINE

Subject Area	# of Items
Excavation and Grading	6
Electrical Power Distribution	10
Fuel Distribution	12
Swimming Pools	4
Concrete and Concrete Reinforcement	12
Shotcrete and Gunite	4
Water and Sewer Piping	15
Communication Systems	5
Boring and Tunneling	4
Erosion and Sedimentation Control	2
Safety	8
One Call	2
Welding	6

REFERENCE LIST

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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.)
- *Recommended Practices for Installation of Aboveground Storage Systems for Motor-Vehicle Fueling (RP200), 2013, Petroleum Equipment Institute, (918) 494-9696, www.pei.org*
- *Recommended Procedure for Testing Electrical Continuity of Fuel-Dispensing Hanging Hardware (RP400), 2002, Petroleum Equipment Institute 6514 East 69th Street, Tulsa, OK 74133, (918) 494-9696, www.pei.org/shopping*
- *ASME Code for Pressure Piping - B31.8 - Gas Transmission and Distribution Piping Systems, 2014, American Society of Mechanical Engineers, Three Park Avenue, New York, NY 10065, (800) 843-2763, www.asme.org*

- *National Electrical Safety Code*, 2017, Institute of Electrical and Electronics Engineers, Inc., 345 East 47th Street, New York, NY 10017-2394, (732) 981-0060
- *Lineman's and Cableman's Handbook*, Shoemaker and Mack, 12th edition (2012) or 13th edition (2017), www.amazon.com.
- *IDIPRA Installation Guide for Ductile Iron Pipe*, 2021 (revised 2012), Ductile Iron Pipe Research Association, https://www.academia.edu/7676342/INSTALLATION_GUIDE_FOR_DUCTILE_IRON_PIPE
- *Concrete Pipe & Box Culvert Installation*, 2007 edition, American Concrete Pipe Association, 1303 West Walnut Hill Lane, Suite 305, Irving, Texas 75308-7216, www.concrete-pipe.org
- *Pipe and Excavation Contracting*, Dave Roberts, 2011, Craftsman Book Company, (800) 829-8123, www.craftsman-book.com/products
- *Jacked Tunnel Design and Construction*, 1998, Marco D. Boscardin, American Society of Civil Engineers, 1801 Alexander Bell Drive, Reston, VA 20191-4400, (800) 548-2723, www.asce.org
- *Erectors' Manual - Standards and Guidelines for the Erection of PreCast Concrete Products*, 2nd Edition, 1999, Precast/Prestressed Concrete Institute (PCI), (312) 786-0300, info@pci.org
- *Modern Welding*, 11th Edition, 2013, 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
- *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
- *Guide to Shotcrete*, 2016 or 2022, American Concrete Institute, P.O. Box 9094, Farmington Hills, MI 48333, (248) 848-3700, www.aci-int.org/bookstore/bkstr.asp
- *Storm Water Management for Construction Activities*, 1992, Environmental Protection Agency, (202) 272-0167, www.epa.gov/npdes/pubs/owm0307.pdf
- *Alabama 1Call - Dig Safely; AL Act 94-487 S.299*; www.al1call.com
- *Certified Pool-Spa Operators Handbook*, 2006, National Swimming Pool Foundation, 10803 Gulfdale Suite 300, San Antonio, TX 78216, (512) 623-3447, www.nspf.com

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.

OIL AND GAS FIELDS CONTRACTOR

# of Questions	Minimum Passing Score	Time Allowed
30	70% (21 correct)	120 Minutes

CONTENT OUTLINE

Items
Tanks and Pipelines
Miscellaneous Structure / Corrosion Protection
Welding
Heavy Equipment / Safety
Paving and Surfacing

REFERENCE LIST

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- *49 CFR Parts 178-199 (Transportation)*, 2004, Subchapter D, Pipeline Safety, (866) 512-1800, www.bookstore.gpo.gov OR www.osha.gov
- *Handbook of Rigging*, 5th Edition, 2009, W.E. Rossnagel, McGraw-Hill, P.O. Box 182605, Columbus, OH 43218-2605, (800) 338-3987, www.McGraw-hill.com
- *Hot-Mix Asphalt Paving Handbook*, Carl L. Monismith, Rita B. Leahy, John A. Epps, 2000, American Association of State Highway Transportation Officials, (202) 624-5800, www.aashto.org
- *Modern Welding*, 11th Edition, 2013, 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 and Excavation Contracting*, Dave Roberts, 2011, Craftsman Book Company, (800) 829-8123, www.craftsman-book.com/products
- *Design and Construction of Large, Welded, Low-Pressure Storage Tanks* - API Standard 620, 2008, 11th edition, OR *Design and Construction of Large, Welded, Low-Pressure Storage Tanks* - API Standard 620, 2013, 12th edition with Addendums through April 2018, American Petroleum Institute, https://www.techstreet.com/standards/api-std-620?product_id=1534905
- *Welded Steel Tanks for Oil Storage - API Standard 650*, 2013 (12th edition) with Addenda through 2016, American Petroleum Institute, (202) 682-8000, <http://www.techstreet.com>

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PAINTING AND WALL COVERING CONTRACTOR

# of Questions	Minimum Passing Score	Time Allowed
50	70% (35 correct)	120 Minutes

CONTENT OUTLINE

Subject Area	# of Items
General Knowledge	16
Materials and Application	18
Wall Coverings	6
Safety and Employee Protection	10

REFERENCE LIST

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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.)
- **Painting & Decorating Craftsman's Manual and Textbook**, Eighth Edition, 1995, Painting and Decorating Contractors of America, 3913 Old Lee Highway, Suite 33-B, Fairfax, VA 22030, (705) 359-0826, www.pdca.org/
- **Painting and Decorating: Skills and Techniques**, 2000, E. Keith, Blankenbaker, The Goodheart-Willcox Company, Inc., 18604 West Creek Dr., Tinley Park, IL 60477, (800) 323-0440, www.goodheartwillcox.com

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PIPELINES CONTRACTOR

# of Questions	Minimum Passing Score	Time Allowed
60	70% (42 correct)	150 Minutes

CONTENT OUTLINE

Subject Area	# of Items
Excavation	8
Tank and Vaults	12
Piping, Pumps, and Controls	12
Troubleshooting and Maintenance	2
Safety and Fire Prevention	8
Leak Detection and Monitoring Systems	3
Erosion and Sedimentation Control	3
One Call	3
Estimating (different than clone)	2
Survey and Layout (different than clone)	1
Gas	6

REFERENCE LIST

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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.)
- **Alabama 1Call - Dig Safely; AL Act 94-487 S.299**; www.al1call.com
- **Storm Water Management for Construction Activities**, 1992, Environmental Protection Agency, (202) 272-0167, www.epa.gov/npdes/pubs/owm0307.pdf
- **NFPA 30, Flammable and Combustible Liquids Code**, 2015 or earlier, 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**, 2015 or earlier, 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 (RP100) 2017*., Petroleum Equipment Institute, (918) 494-9696, www.pei.org
- *Recommended Practices for Installation of Aboveground Storage Systems for Motor-Vehicle Fueling (RP200)*, 2013, Petroleum Equipment Institute, (918) 494-9696, www.pei.org
- *Recommended Procedure for Testing Electrical Continuity of Fuel-Dispensing Hanging Hardware (RP400)*, 2002, Petroleum Equipment Institute 6514 East 69th Street, Tulsa, OK 74133, (918) 494-9696, www.pei.org
- *ASME Code for Pressure Piping - B31.8 - Gas Transmission and Distribution Piping Systems*, 2014, American Society of Mechanical Engineers, Three Park Avenue, New York, NY 10065, (800) 843-2763, www.asme.org
- *Pipe and Excavation Contracting*, Dave Roberts, 2011, Craftsman Book Company, (800) 829-8123, www.craftsman-book.com/products
- *Petroleum Equipment Lexicon: The definitive dictionary of terms used in petroleum marketing operations*, 1995, Petroleum Equipment Institute, 6514 East 69th Street, Tulsa, OK 74133, (918) 494-9696, www.pei.org

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PRE-CAST AND PRE-STRESSED CONCRETE CONTRACTOR

# of Questions	Minimum Passing Score	Time Allowed
50	70% (35 correct)	120 Minutes

CONTENT OUTLINE

Subject Area	# of Items
Safety	5
Concrete Earthwork	3
Concrete	11
Concrete Reinforcement	9
Concrete Formwork	8
Concrete Cutting	3
Pre-cast Pre-stressed Concrete Erecting	6
Grouting	2
Embeds, Bolting, and Bearing Plates	1
One Call	2

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- *International Building Code*, 2021, International Code Council, (800) 786-4452, www.iccsafe.org
- *Alabama 1Call - Dig Safely*; AL Act 94-487 S.299; www.al1call.com
- *SP-4 Framework for Concrete*, 2014, 8th Edition, David W. Johnston, American Concrete Institute, <https://www.concrete.org/store.aspx>
- *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
- *Saw cutting Joints in Concrete*, Bruce A. Suprenant, 1995, Concrete Construction Magazine, (773) 824-2400, [ftp://imags.ebuild.com/woc/C950054.pdf](http://imags.ebuild.com/woc/C950054.pdf)
- *Saw cutting Concrete Flatwork*, Rosalie Johnston, 1994, Concrete Construction Magazine, (773) 824-2400, [ftp://imags.ebuild.com/woc/C940483.pdf](http://imags.ebuild.com/woc/C940483.pdf)
- *Taking the Tedium Out of Cutting*, 1981, Concrete Construction Magazine, (773) 824-2400, [ftp://imags.ebuild.com/woc/C810049.pdf](http://imags.ebuild.com/woc/C810049.pdf)
- *Tips for Cutting Concrete*, 1987, Concrete Construction Magazine, (773) 824-2400, [ftp://imags.ebuild.com/woc/C870626.pdf](http://imags.ebuild.com/woc/C870626.pdf)
- *Erectors' Manual - Standards and Guidelines for the Erection of PreCast Concrete Products*, 2nd Edition, 1999, Precast/Prestressed Concrete Institute (PCI), (312) 786-5000
- *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/>

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POWER PROJECTS AND PLANTS CONTRACTOR

# of Questions	Minimum Passing Score	Time Allowed
50	70% (35 correct)	120 Minutes

CONTENT OUTLINE

Subject Area	# of Items
Transformers	6
Electrical Knowledge	6
Conductors	8
Overhead Lines	5
Underground Lines	3
Equipment and Safety	10
Grounding Methods	4
Service Drops and Laterals	2
Poles and Structures	3
Electric Supply Stations	3

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https://www.osha.gov/pls/oshaweb/owastand.display_standard_group?p_toc_level=1&p_part_number=1926*
OR
Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI, with latest available amendments, www.psionlinestore.com, (866) 589-3088 (See order form at the end of the Candidate Information Bulletin.)
- *National Electrical Safety Code 2002, Institute of Electrical and Electronics Engineers, Inc., 345 East 47th Street, New York, NY 10017-2394, (732) 981-0060*
- *Lineman's and Cableman's Handbook, Shoemaker and Mack, 12th edition (2012) or 13th edition (2017), www.amazon.com.*
- *American Electricians' Handbook, Croft, Hartwell, and Summers, 16th Edition, 2013, McGraw-Hill, (800) 262-4729, shop.mcgraw-hill.com*
- *National Electrical Code, 2020, National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169, (800) 344-3555, www.nfpa.org or the National Electrical Code Handbook*

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REMODELING, ALTERATION, AND MAINTENANCE CONTRACTOR

# of Questions	Minimum Passing Score	Time Allowed
60	70% (42 correct)	120 Minutes

CONTENT OUTLINE

Subject Area	# of Items
Safety	6
Windows and Doors	3
Rough Carpentry	16
Finish Carpentry	16
Siding	3
Drywall	2
Concrete	7
Masonry	7

REFERENCE LIST

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- *Finish Carpenter's Manual, Jim Tolpin, 1993, Craftsman Book Company, (800) 829-8123, www.craftsman-book.com*
- *International Building Code, 2015, International Code Council, (800) 786-4452, www.iccsafe.org*
- *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
- *Modern Masonry - Brick, Block, Stone, Clois E. Kicklighter*, 8th edition (2015). The Goodheart-Willcox Company, (800) 323-0440, www.g-w.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

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.

ROOFING AND SHEET METAL CONTRACTOR

# of Questions	Minimum Passing Score	Time Allowed
60	70% (42 correct)	150 Minutes

CONTENT OUTLINE

Subject Area	# of Items
Estimating and Plan Reading	10
Surface Preparation and Planning	8
Steep and Low Slope Roofing, including BUR, Waterproofing	27
Roofing Components	9
Safety	6

REFERENCE LIST

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

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:

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

OR

Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI, with latest available amendments,

- www.psionlinestore.com, (866) 589-3088 (See order form at the end of the Candidate Information Bulletin.)
- *International Building Code*, 2021, International Code Council, (800) 786-4452, www.iccsafe.org
- *Roofing Construction and Estimating*, Daniel Atcheson, 1995, Craftsman Book Company, (800) 829-8123, www.craftsman-book.com/products
- *NRCA Roofing Manual: Steep Slope Roof Systems*, 2025, National Roofing Contractors Association, (847) 299-9070, <http://www.nrca.net>
- *NRCA Roofing Manual: Membrane Roofing Systems*, 2023, The National Roofing Contractors Association, 866) 275-6722, www.nrca.net

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RUNWAY CONTRACTOR

# of Questions	Minimum Passing Score	Time Allowed
30	70% (21 correct)	75 Minutes

CONTENT OUTLINE

Subject Area	# of Items
Sitework	10
Runways	15
FAA Regulations	3
Lighting	2

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 material is allowed in the examination center:

- *Soils and Foundations*, Cheng Liu and Jack B. Evett, 2008, 7th edition, Pearson Education, Inc., (201) 236-7000, www.pearsoned.com
- *Airport Construction Standards FAA Advisory Circular AC 150/5370-10*, 2011, Federal Aviation Administration, (866) 835-5322, http://www.faa.gov/airports/engineering/construction_standards/

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).

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SEWER PROJECTS CONTRACTOR

# of Questions	Minimum Passing Score	Time Allowed
50	70% (35 correct)	120 Minutes

CONTENT OUTLINE

Subject Area	# of Items
SEWERS	15
SEPTIC TANKS AND DRAIN FIELDS	10
EXCAVATION AND GRADING	15
SAFETY	10

REFERENCE LIST

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The following reference material is allowed in the examination center:

- International Plumbing Code, 2021 Edition, International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478-5795, www.iccsafe.org.
- Code of Federal Regulations - 29 CFR Part 1926 (OSHA), with latest available amendments, U.S. Government Printing Office, (866) 512-1800 or https://www.osha.gov/pls/oshaweb/owastand.display_standard_group?p_toc_level=1&p_part_number=1926
OR
Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI, with latest available amendments, www.psionlinestore.com, (866) 589-3088 (See order form at the end of the Candidate Information Bulletin.)
- Design and Construction of Urban Stormwater Management Systems, 1993 Edition, American Society of Civil Engineers (ASCE), Book Orders, P.O. Box 79404, Baltimore, MD 21279-0404, www.pubs.asce.org.
- Pipe and Excavation Contracting, Dave Roberts, 2011, Craftsman Book Company, (800) 829-8123, www.craftsman-book.com/products
- Alabama State Board Health, Alabama Department of Public Health, Bureau of Environmental Services, Division of Community Environmental Protection, Administrative Code, Chapter 42031, Onsite Sewage Disposal

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SITEWORK CONTRACTOR

# of Questions	Minimum Passing Score	Time Allowed
40	70% (28 correct)	120 Minutes

CONTENT OUTLINE

Subject Area	# of Items
Estimating and Plan Reading	4
Equipment and Technique	6
Compaction	10
Soil Types	10
Specialty Work (Blasting, Shoring)	6
Safety	4

REFERENCE LIST

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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.)
- Pipe and Excavation Contracting, Dave Roberts, 2011, Craftsman Book Company, (800) 829-8123, www.craftsman-book.com/products
- International Building Code, 2021, International Code Council, (800) 786-4452, www.iccsafe.org

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

SPECIAL COATINGS AND WATERPROOFING CONTRACTOR

# of Questions	Minimum Passing Score	Time Allowed
50	70% (35 correct)	120 Minutes

CONTENT OUTLINE

Subject Area	# of Items
Assess Problem	5
Damp Proofing and Waterproofing	12
Excavation and Fill	5
ID Resources Needed and Prepare Estimate	5
Install Drainage System	7
Perform Site and Structural Evaluation	5
Safety and Employee Protection/OSHA	11

REFERENCE LIST

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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 Residential Code for One- and Two-Family Dwellings, 2021, International Code Council, (800) 786-4452, www.iccsafe.org*
- *Pipe and Excavation Contracting, Dave Roberts, 2011, Craftsman Book Company, (800) 829-8123, www.craftsman-book.com/products*
- *Construction Waterproofing Handbook, 2000, Michael T. Kubal, McGraw-Hill, PO Box 543, Blacklick, OH 43004, (800) 262-4729, www.books.mcgraw-hill.com*
- *Alabama 1Call - Dig Safely; AL Act 94-487 S.299; www.al1call.com*

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

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STRUCTURAL AND MISCELLANEOUS STEEL CONTRACTOR

# of Questions	Minimum Passing Score	Time Allowed
40	70% (28 correct)	120 Minutes

CONTENT OUTLINE

Subject Area	# of Items
Materials	10
Rigging	8
Steel Erection	10
Attachment	8
Safety	4

REFERENCE LIST

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

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This examination is OPEN BOOK.

The following reference material is allowed in the examination center:

- *Handbook of Rigging, 5th Edition, 2009, W.E. Rossnagel, McGraw-Hill, P.O. Box 182605, Columbus, OH 43218-2605, (800) 338-3987, www.McGraw-hill.com*
- *Technical Digest No. 9 - Handling and Erection of Steel Joists and Joist Girders, 3rd Edition, 2008, Steel Joist Institute, 234 W. Cheves Street, Florence, SC 29501, Phone: (843) 407-4091, Fax (843) 407-4044, www.steeljoist.org.*
- *Principles and Practices of Commercial Construction, the 2019 10th Edition thru November 4, 2020. Cameron K. Andres and Ronald C. Smith, Pearson Education, Inc., One Lake Street, Upper Saddle River, NJ 07458, Phone (201) 236-7000 [https://www.osha.gov/pls/oshaweb/owastand.display_standard_group?p_toc_level=1&p_part_number=1926](http://www.amazon.com/Principles-Practices-Commercial-Construction-Technology/dp/0134704665/ref=sr_1_1?crid=PXVLRERQS7AE&dchild=1&keywords=principles+and+practices+of+commercial+construction%2C+10th+edition&qid=1600246909&sref=principles+and+practices+of+commercial%2Caps%2C216&sr=8-1</i>▪ <i>Code of Federal Regulations - 29 CFR Part 1926 (OSHA), with latest available amendments, U.S. Government Printing Office, (866) 512-1800 or <a href=)*
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.)
- SDI Manual of Construction with Steel Deck, 2006, 2nd Edition, Steel Deck Institute, (847) 458-4647, www.sdi.org

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TELECOMMUNICATIONS CONTRACTOR

# of Questions	Minimum Passing Score	Time Allowed
45	70% (32 correct)	120 Minutes

CONTENT OUTLINE

Subject Area	# of Items
MATV and Cable TV Systems	7
Antennas	7
Foundations / Concrete	8
Steel Erection / Welding	8
Safety	6
Erosion and Sedimentation Control	2
One Call	2
Underground Cabling	2
Hoisting (different than clone)	2
Sitework (different than clone)	1

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/pls/oshaweb/owastand.display_standard_group?p_toc_level=1&p_part_number=1926 OR

Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI, with latest available amendments, www.psionlinestore.com, (866) 589-3088 (See order form at the end of the Candidate Information Bulletin.)

- Alabama 1Call - Dig Safely; AL Act 94-487 S.299; www.al1call.com
- Storm Water Management for Construction Activities, 1992, Environmental Protection Agency, (202) 272-0167, www.epa.gov/npdes/pubs/owm0307.pdf
- Handbook of Rigging, 5th Edition, 2009, W.E. Rossnagel, McGraw-Hill, P.O. Box 182605, Columbus, OH 43218-2605, (800) 338-3987, www.McGraw-hill.com
- Antenna Toolkit, 2nd Edition, 2001, Joe Carr, Butterworth-Heinemann (Reed Publishing), 313 Washington Street, Newton, MA 02158-1626, (781) 221-2212, www.bh.com
- Design and Control of Concrete Mixtures, Steven H. Kosmatka, William C. Panaresi, 16th Edition, Portland Cement Association, 5420 Old Orchard Road, Skokie, IL 60077-1083, (847) 966-6200, www.portcement.org/bookstore
- Modern Welding, 11th Edition, 2013, 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 and Excavation Contracting, Dave Roberts, 2011, Craftsman Book Company, (800) 829-8123, www.craftsman-book.com/products
- Data, Voice, and Video Cabling, Jim Hayes, Paul Rosenberg, 2009, 3rd Edition, Delmar Cengage Learning, (800) 347-7707, www.delmarlearning.com

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TUNNEL CONTRACTOR

# of Questions	Minimum Passing Score	Time Allowed
60	70% (42 correct)	150 Minutes

CONTENT OUTLINE

Subject Area	# of Items
Boring and Tunneling	22
Sitework	6
Concrete	10
Concrete Reinforcement	5
Hoisting and Rigging	5
Safety	5
One Call	2
Erosion and Sedimentation Control	2
Survey and Layout (different than clone)	1
Estimating (different than clone)	2

REFERENCE LIST

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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.)
- **Alabama 1Call - Dig Safely; AL Act 94-487 S.299;** www.al1call.com
- **Storm Water Management for Construction Activities,** 1992, Environmental Protection Agency, (202) 272-0167, www.epa.gov/npdes/pubs/owm0307.pdf
- **Handbook of Rigging,** 5th Edition, 2009, W.E. Rossnagel, McGraw-Hill, P.O. Box 182605, Columbus, OH 43218-2605, (800) 338-3987, www.McGraw-hill.com
- **Pipe and Excavation Contracting,** Dave Roberts, 2011, Craftsman Book Company, (800) 829-8123, www.craftsman-book.com/products
- **Jacked Tunnel Design and Construction,** 1998, Marco D. Boscardin, American Society of Civil Engineers, 1801 Alexander Bell Drive, Reston, VA 20191-4400, (800) 548-2723, www.asce.org
- **Standard Construction Guidelines for Microtunneling,** 2001, American Society of Civil Engineers, 1801 Alexander Bell Drive, Reston, VA 20191-4400, (800) 548-2723, www.asce.org
- **Code of Practice for Tunnels Under Construction,** 1991, Dames and Moore, www.workcover.nsw.gov.au/NR/rdonlyres/BA459A8D-D048-4FE1-B144-7EFC36D27FB6/0/cop_tunnels_10.pdf
- **Cost Estimating for Underground Transit: Too Dangerous to "Guesstimate",** 1997, Romero, Victor S. Romero & John M. Stoltz, Jacobs Associates, 500 Sansome Street, Suite 700, San Francisco, CA 94111, (415) 434-1822, www.jacobssf.com
- **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
- **Instructional Manual for Training and Certification of Field Personnel for Unbonded Post-Tensioning,** 3rd Edition, 2003, Post Tensioning Institute, (248) 848-3180, www.post-tensioning.org
- **Placing Reinforcing Bars, Recommended Practices,** 2011 or later printing, 9th 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/>

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WATER PROJECTS CONTRACTOR

# of Questions	Minimum Passing Score	Time Allowed
50	70% (35 correct)	120 Minutes

CONTENT OUTLINE

Subject Area	# of Items
Safety	6
Shotcrete	5
Concrete	8
Concrete Reinforcement	7
Excavation and Grading	7
Water Regulations and Water Tanks and Piping	7
One Call	2
Erosion and Sedimentation Control	2
Formwork	6

REFERENCE LIST

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- **Pipe and Excavation Contracting,** Dave Roberts, 2011, Craftsman Book Company, (800) 829-8123, www.craftsman-book.com/products
- **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
- **Guide to Shotcrete,** American Concrete Institute, P.O. Box 9094 Farmington Hills, MI 48333, (248) 848-3700, www.aci-int.org/bookstore/bkstr.asp
- **Placing Reinforcing Bars, Recommended Practices,** 2011 or later printing, 9th 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/>

- Institute, , 933 North Plum Grove Rd, Schaumburg, IL 60173, Phone (800) 328-6306, <http://www.crsi.org/>
- *SP-4 Formwork for Concrete, 2014, 8th Edition, David W. Johnston, American Concrete Institute,* <https://www.concrete.org/store.aspx>
- *AL Dept of Environmental Management Water Division Water Supply Program 335-7,* <http://www.adem.state.al.us/Regulations/regulations.htm>
- *Alabama 1Call - Dig Safely; AL Act 94-487 S.299;* www.al1call.com
- *PVC Pipe - Design and Installation - AWWA Manual M23,* 2020, 3rd edition, American Water Works Association, (800) 926-7335, www.awwa.org
- *Steel Water-Storage Tanks - AWWA Manual M42, 1998,* 1st edition, American Water Works Association, (800) 926-7335, www.awwa.org
- *Storm Water Management for Construction Activities,* 1992, Environmental Protection Agency, (202) 272-0167, www.epa.gov/npdes/pubs/owm0307.pdf

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