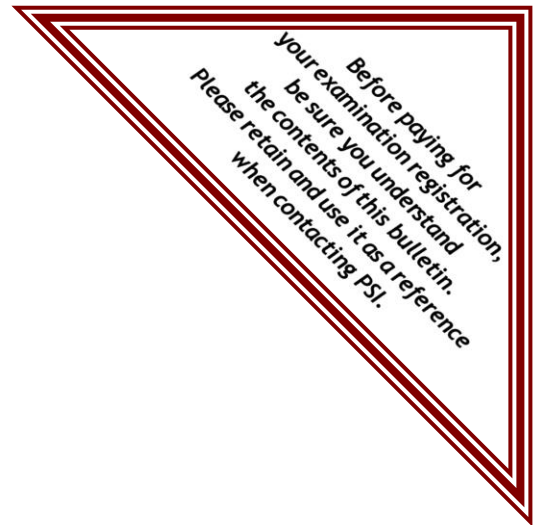




PSI licensure:certification  
 3210 E Tropicana  
 Las Vegas, NV 89121  
[www.psiexams.com](http://www.psiexams.com)



# STATE OF ALABAMA GENERAL CONTRACTORS

## CANDIDATE INFORMATION BULLETIN

Examination Checklist.....	1	Emergency Examination Center Closing.....	6
Examination Registration Form .....	2	Social Security Confidentiality.....	6
Examinations by PSI licensure:certification .....	4	Reporting to the Examination Site .....	6
Guidelines for License Application/Qualification .....	4	Required Identification .....	6
Examination Registration and Scheduling Procedures .....	4	Security Procedures .....	6
Internet Registration .....	4	Taking the Examination by Computer .....	6
Telephone Registration .....	4	Identification Screen .....	7
Fax Registration .....	4	Tutorial.....	7
Standard Mail Registration.....	4	Exam Question Screen .....	7
Scheduling an Examination .....	5	Examination Review.....	7
Rescheduling an Examination .....	5	Score Reporting .....	7
Canceling an Examination .....	5	Duplicate Score Reports .....	7
Missed Appointment or Late Cancellation.....	5	Tips for Preparing for Your License Examination .....	7
Exam Accommodations.....	5	Examination Content Outlines.....	8
Examination Site Locations.....	5	Exam Accommodation Request Form .....	End of Bulletin

Please refer to our website to check for the most updated information at [www.psiexams.com](http://www.psiexams.com)

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

**Become eligible to take the examination:**

- Request an application package from the Licensing Board for General Contractors (see page 3).
- Complete the appropriate application and return to the State.
- Upon acceptance by the State, PSI will mail you a PSI Candidate Information Bulletin, which contains the examination registration form and instructions for selecting an examination date.

**Prepare for your examination:**

- Use the examination content outlines provided in this bulletin as the basis of your study.
- Use the Alabama Contractor Reference Manual to prepare for the examination.

**Register for your examination:**

- Complete the registration form on line, at [www.psiexams.com](http://www.psiexams.com), and submit it to PSI via the Internet or;
- Completely fill out the PSI Registration Form (see page 2) and mail or fax to PSI or;
- Call (855) 257-1619 to register.
- Send online \_\_\_\_\_ (no wait for scheduling the examination date).
- Mailed on \_\_\_\_\_ (allow 2 weeks for processing before scheduling the examination date).
- Faxed on \_\_\_\_\_ (allow 4 business days for processing before scheduling the examination date).
- Phoned on \_\_\_\_\_ (no wait for scheduling the examination date).

**Schedule your examination:**

- Once you have paid, you are responsible for contacting PSI to schedule an appointment to take the examination. You may either schedule via the Internet, or schedule over the telephone at (855) 257-1619.
- Scheduled for:
- Examination Date: \_\_\_\_\_
- Examination Time: \_\_\_\_\_
- Test Center Location: \_\_\_\_\_
- To change scheduled date, call back by: \_\_\_\_\_

**Take your examination:**

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

**After your examination:**

- Upon passing the examination, your results will be made available to the State to access.
- The State will process the remainder of the license application package and notify you upon license approval.



7. **Total Fees Included:** \$\_\_\_\_\_ Pay by credit card (VISA, MasterCard, American Express or Discover), money order, cashier's check or company check. Personal checks and cash are **not** accepted.

NOTE: Registration fees are not refundable or transferable. Registration fees expire after one year of registering.

If paying by credit card, check one:  VISA  MasterCard  American Express  Discover

Card No: \_\_\_\_\_ Exp. Date: \_\_\_\_\_

Card Verification No: \_\_\_\_\_ *The card verification number may be located on the back of the card (the last three digits on the signature strip) or on the front of the card (the four-digit number to the right and above the card account number).*

Billing Street Address: \_\_\_\_\_ Billing Zip Code: \_\_\_\_\_

Cardholder Name (Print): \_\_\_\_\_ Signature: \_\_\_\_\_

8. **Affidavit:** *I certify that the information provided on this registration form (and/or telephonically to PSI) is correct. I understand that any falsification of information may result in denial of licensure. I have read and understand the examination information bulletin.*

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

IF YOU ARE REGISTERING BY MAIL OR FAX, SIGN AND DATE THIS REGISTRATION FORM ON THE LINES PROVIDED.  
Complete and forward this registration form with the applicable examination fee to:  
PSI licensure:certification \* ATTN: Examination Registration AL CO  
3210 E Tropicana \* Las Vegas \* NV \* 89121  
Fax (702) 932-2666 \* (855) 257-1619 \* TTY (800) 735-2929  
[www.psiexams.com](http://www.psiexams.com)



## EXAMINATIONS BY PSI LICENSURE: CERTIFICATION

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*  
2525 Fairlane Drive (Executive Park)  
Montgomery, Alabama 36116  
(334) 272-5030 Ext 226 • Fax: (334) 395-5336  
[www.genconbd.state.al.us](http://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.

[www.psiexams.com](http://www.psiexams.com)  
PSI licensure:certification  
3210 E Tropicana  
Las Vegas, NV 89121  
(855) 257-1619 • Fax (702) 932-2666

## 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.

### 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 [www.psiexams.com](http://www.psiexams.com). Internet registration is available 24 hours a day.

- Log onto PSI's website and create an account. Please enter your email address and first and last name. This information must match exactly with the information PSI has on file. Be sure to **check the box next to "Check here to attempt to locate existing records for you in the system"**
- You will be asked to select the examination and enter your SS#. Your record will be found, and you will 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.

### FAX REGISTRATION

Complete the PSI registration form (found at the end of this bulletin), including your credit card number and expiration date. Fax the completed form to PSI (702) 932-2666. Fax registrations are accepted 24 hours a day.

Please allow 4 business days to process your Registration. After 4 business days, you may go online or call PSI to schedule the examination.

### STANDARD MAIL REGISTRATION

Complete the PSI registration form (found on page 2 of this bulletin), and appropriate examination fee to PSI. Payment of fees may be made by credit card (VISA, MasterCard, American Express or Discover), company check, money order or cashier's check, made payable to PSI. Print your name on the check or money order to ensure that your fees are properly assigned. **CASH AND PERSONAL CHECKS ARE NOT ACCEPTED.**

Please allow 2 weeks to process your registration. After 2 weeks, you may go online or call PSI to schedule 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.**

## SCHEDULING A RE-EXAMINATION

It is not possible to make a new examination appointment on the same day you have taken an examination; this is due to processing and reporting scores. A candidate who tests unsuccessfully on a Wednesday can call the next day, Thursday, and retest as soon as Friday, depending upon space availability. In order to retest, you must re-register follow the steps for registration and scheduling as outlined earlier. You may re-register over the Internet, telephone or by mail. Once registered, you can reschedule 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 must follow the instructions on the Exam Accommodations Request Form at the end of this Candidate Information Bulletin.

## 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 [www.psiexams.com](http://www.psiexams.com).

## 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

*After you exit I-65 at Hwy 31, turn North on Highway 31 toward Vestavia Hills. Turn right at first traffic light onto Vestavia Parkway. Turn right at the first street onto Centerview Drive. Turn left into the first parking lot.*

**Huntsville**  
4900 University Square, Suite 4  
Huntsville, AL 35816

*From Memorial Parkway (US-431/231), take the University Dr (US-72 W) exit. Turn right on The Boardwalk. You will come to a dead end, facing 4900 University Square.*

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

*From East or West, take I-10 to I-65. From I-65 take Airport Blvd West exit. The site is approximately 3 miles ahead on Airport Blvd. Dorsey Center is a small red brick office complex on the left side of the road. You have to make a U-turn at the next traffic light to get to the complex. Office is in the corner of the "L".*

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

*From I-85, take the Perry Hill Road exit (#4). Proceed north on Perry Hill Road for little less than ¼ mile. Interstate Park Drive is located on the right (east) side of Perry Hill Road. Turn right on Interstate Park Road and proceed east for approximately ¼ mile. The office is located on the main road.*

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 2 forms of identification.* One must be a VALID form of government issued identification (driver's license, state ID, passport), which bears your signature and has your photograph. The second ID must have your signature and preprinted legal name. All identification provided must match the name on the Examination Registration Form and your Registration Confirmation Notice.

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.

### IDENTIFICATION SCREEN

You will be directed to a semiprivate testing station to take the examination. When you are seated at the testing station, you will be prompted to confirm your name, identification number, and the examination for which you are registered.

### 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



The “function bar” at the top of the sample question provides mouse-click access to the features available while taking the examination.



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 five to ten “experimental” questions may be administered to candidates during the examinations. These questions will not be scored, and the time taken to answer them will not count against examination time. The administration of such non-scored 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. The following summary describes the score reporting process:

- **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. Registration forms for submittal to PSI to retake the examination will be available at the examination site.
- **On paper** - an official score report will be printed at the examination site.

### DUPLICATE SCORE REPORTS

You may request a duplicate score report after your examination by writing to PSI, by emailing [scorereport@psionline.com](mailto:scorereport@psionline.com) or by calling (855) 257-1619.

## TIPS FOR PREPARING FOR YOUR LICENSE EXAMINATION

The following suggestions will help you prepare for your examination.

- Planned preparation increases your likelihood of passing.
- Start with a current copy of this Candidate Information Bulletin and use the examination content outline as the basis of your study.
- Read study materials that cover all the topics in the content outline.
- Take notes on what you study. Putting information in writing helps you commit it to memory, and it is also an excellent business practice. Underline or highlight key ideas that will help with a later review.
- Discuss new terms or concepts as frequently as you can with colleagues. This will test your understanding and reinforce ideas.
- Your studies will be most effective if you study frequently, for periods of about 45 to 60 minutes. Concentration tends to wander when you study for longer periods of time.

**Now you can take the practice exam online at [www.psiexams.com](http://www.psiexams.com) 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 - 3<sup>rd</sup> 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](http://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](http://www.nascla.org/page/ParticipatingStateAg)

For questions regarding the examination, please contact NASCLA via email to [info@nascla.org](mailto: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 examination items specified, 10 non-scored "experimental" questions will be administered to candidates during the examinations. **These questions will not be scored, and the time taken to answer them will not count against examination time.** The administration of such non-scored 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.

- *Construction Jobsite Management*, 4th Edition, 2017, William R. Mincks, Hal Johnston, Delmar/Thomson Learning, PO Box 6904, Florence, KY 41022-6904, Phone (800) 347-7707, Fax (800) 487-8488, [www.delmarlearning.com](http://www.delmarlearning.com).
- *Construction Project Management*, 2014, 4th Edition, Frederick Gould, Nancy Joyce, Pearson Education, Inc. publishing as Prentice Hall, One Lake Street, Upper Saddle River NJ, 07458, 800-848-9500.
- *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](http://www.concrete.org).
- *BCSI: Guide to Good Practice for Handling, Installing, Restraining, and Bracing of Metal Plate Connected Wood Trusses*, 2013 (updated March 2015) or 2018 (Updated March 2020), Structural Building Components Association and Truss Plate Institute, (608) 274- 4849, <https://www.sbcindustry.com/building-component-safety-information-bcsi> (Effective 1/1/2021 the examination will be based on the 2018 (Updated March 2020 Edition).)
- *NASCLA Contractors' Guide to Business, Law and Project Management, Basic 12th Edition or Basic 13th Edition National Association of State Contractors Licensing Agencies (NASCLA)*, 23309 N. 17th Drive, Phoenix Arizona 85027, Telephone: (623) 587-9519, Fax: (623) 587-9625, [www.nascla.org](http://www.nascla.org) (Effective 1/1/2021 the examination will be based on the Basic 13th Edition.)
- *Erectors' Manual - Standards and Guidelines for the Erection of Pre-Cast Concrete Products*, 1999, 2nd Edition, Precast/Prestressed Concrete Institute (PCI), 209 W. Jackson Blvd, Chicago, IL 60606-6938, Phone (312) 786-0300, Fax (312) 786-0353, [www.pci.org](http://www.pci.org)
- *Training and Certification of Field Personnel for Unbonded Post-Tensioning - Level 1 Field Fundamentals*, 2003, 3rd Edition, Post Tensioning Institute, (248) 848-3180, [www.post-tensioning.org](http://www.post-tensioning.org)
- *SDI (Steel Deck Institute) Manual of Construction with Steel Deck*, 2006, 2nd Edition, Publisher-Steel Deck Institute, PO Box 25, Fox River Grove, IL 60021, Phone (847) 458-4647, Fax (847) 458-4648, [www.sdi.org](http://www.sdi.org)
- *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](http://www.Craftsman-book.com)
- *Gypsum Construction Handbook*, 7th edition, 2014, United States Gypsum Company (USG), RS Means Publishing, 700 Longwater Drive, Norwell, MA 02061, 800-334-3509, Fax: 800-632-6732, [rsmeans.reedconstructiondata.com](http://rsmeans.reedconstructiondata.com)
- *Placing Reinforcing Bars, Recommended Practices*, 2011 or later printing, 9th Edition, Concrete Reinforcing Steel Institute, 933 North Plum Grove Rd, Schaumburg, IL 60173, Phone (800) 328-6306, <http://www.crsi.org/>
- *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](http://www.steeljoist.org).
- *Modern Masonry - Brick, Block, Stone*, Clois E. Kicklighter, 8th edition (2015). The Goodheart-Willcox Company, (800) 323-0440, [www.g-w.com](http://www.g-w.com)
- *Principles and Practices of Commercial Construction, the 2014 9th Edition thru November 4, 2020. Beginning November 5, 2020 the candidate can only use the 2019 10th Edition.* Cameron K. Andres and Ronald C. Smith, Pearson Education, Inc., One Lake Street, Upper Saddle River, NJ 07458, Phone (201) 236-7000 [https://www.amazon.com/Principles-Practices-Commercial-Construction-Technology/dp/0134704665/ref=sr\\_1\\_1?crd=PXVLRERQS7AE&dchild=1&keywords=principles+and+practices+of+commercial+construction%2C+10th+edition&qid=1600246909&srefix=principles+and+practices+of+commer%2Caps%2C216&sr=8-1](https://www.amazon.com/Principles-Practices-Commercial-Construction-Technology/dp/0134704665/ref=sr_1_1?crd=PXVLRERQS7AE&dchild=1&keywords=principles+and+practices+of+commercial+construction%2C+10th+edition&qid=1600246909&srefix=principles+and+practices+of+commer%2Caps%2C216&sr=8-1) *The new 10th edition will be used beginning November 5, 2020.*
- *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](http://www.psionlinestore.com), (866) 589-3088 (See order form at the end of the Candidate Information Bulletin.)
- *Carpentry and Building Construction*, 2010 or 2016 (Student Edition), John L. Feirer and Mark D. Feirer, McGraw-Hill, [www.mheducation.com](http://www.mheducation.com)
- *ANSI Accessible and Usable Buildings and Facilities*, 2009, American National Standards Institute, 1819 L Street NW, Washington, DC 20036, (202) 293-8020, [www.ansi.org](http://www.ansi.org)
- *Roofing Construction and Estimating*, Daniel Atcheson, 1995, Craftsman Book Company, (800) 829-8123, [www.craftsman-book.com/products](http://www.craftsman-book.com/products)
- *The Contractor's Guide to Quality Concrete Construction*, 2005, 3rd Edition, American Concrete Institute, (248) 848-3700, [www.concrete.org](http://www.concrete.org)
- *Green Building Fundamentals*, Michael Montoya, 2011, 2nd edition, Pearson Education Publishing, Pearson Publishing, [www.informit.com/sales/df](http://www.informit.com/sales/df)
- *International Building Code*, 2015 or 2018 edition, International Code Council, (800) 786-4452, [www.iccsafe.org](http://www.iccsafe.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.

## 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](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](http://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*, 2013 (updated March 2015) or 2018 (Updated March 2020), Structural Building Components Association and Truss Plate Institute, (608) 274- 4849, <https://www.sbcindustry.com/building-component-safety-information-bcsi> (Effective 1/1/2021 the examination will be based on the 2018 (Updated March 2020 Edition).)
- *Carpentry and Building Construction*, 2010 or 2016 (Student Edition), John L. Feirer and Mark D. Feirer, McGraw-Hill, [www.mheducation.com](http://www.mheducation.com)

- *The Contractor's Guide to Quality Concrete Construction*, 2005, 3rd Edition, American Concrete Institute, (248) 848-3700, [www.concrete.org](http://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](http://www.g-w.com)
- *Pipe and Excavation Contracting*, Dave Roberts, 2011, Craftsman Book Company, (800) 829-8123, [www.craftsman-book.com/products](http://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](http://rsmeans.reedconstructiondata.com)
- *Technical Digest No. 9 - Handling and Erection of Steel Joists and Joist Girders*, 3rd Edition, 2008, Steel Joint Institute, 234 W. Cheves Street, Florence, SC 29501, Phone: (843) 407-4091, Fax (843) 407-4044, [www.steeljoist.org](http://www.steeljoist.org)
- *SDI Manual of Construction with Steel Deck*, 2006, Steel Deck Institute, (847) 458-4647, [www.sdi.org](http://www.sdi.org)
- *International Energy Conservation Code*, 2006
- *International Building Code*, 2006, International Code Council, (800) 786-4452, [www.iccsafe.org](http://www.iccsafe.org)  
*Beginning June 24 either the 2006 or the 2015 edition of the code can be used. After Oct. 1, only the 2015 edition can be used.*
- *International Residential Code for One- and Two-Family Dwellings*, 2006, International Code Council, (800) 786-4452, [www.iccsafe.org](http://www.iccsafe.org)  
*Beginning June 24 either the 2006 or the 2015 edition of the code can be used. After Oct. 1, only the 2015 edition can be used.*
- *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](http://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](http://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.

## 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

## 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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**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*, 2006, International Code Council, (800) 786-4452, [www.iccsafe.org](http://www.iccsafe.org)  
*Beginning July 14 either the 2006 or the 2015 edition of the code can be used. After Nov. 1, only the 2015 edition can be used.*
- *International Residential Code for One- and Two-Family Dwellings*, 2006, International Code Council, (800) 786-4452, [www.iccsafe.org](http://www.iccsafe.org)
- *Carpentry and Building Construction*, 2010 or 2016 (Student Edition), John L. Feirer and Mark D. Feirer, McGraw-Hill, [www.mheducation.com](http://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](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.psiolinestore.com](http://www.psiolinestore.com), (866) 589-3088 (See order form at the end of the Candidate Information Bulletin.)

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## COMMERCIAL SWIMMING POOL CONTRACTOR

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

### REFERENCE LIST

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This examination is OPEN BOOK.

**The following reference material is allowed in the examination center:**

- *International Building Code*, 2006, International Code Council, (800) 786-4452, [www.iccsafe.org](http://www.iccsafe.org)
- *Beginning July 14 either the 2006 or the 2015 edition of the code can be used. After Nov. 1, only the 2015 edition can be used.*
- *International Residential Code for One- and Two-Family Dwellings*, 2006, International Code Council, (800) 786-4452, [www.iccsafe.org](http://www.iccsafe.org)  
*Beginning July 14 either the 2006 or the 2015 edition of the code can be used. After Nov. 1, only the 2015 edition can be used.*
- *International Swimming Pool and Spa Code*, 2015; 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](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.psiolinestore.com](http://www.psiolinestore.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](http://www.nspf.com)
- *Design and Control of Concrete Mixtures*, Steven H. Kosmatka and William C. Panarese, 16<sup>th</sup> Edition, Portland Cement Association, (847) 966-6200, [www.cement.org](http://www.cement.org)
- *Placing Reinforcing Bars, Recommended Practices, 2011 or later printing, 9<sup>th</sup> 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*, 1995, American Concrete Institute, (248) 848-3700, [www.aci-int.org](http://www.aci-int.org)
- *Pipe and Excavation Contracting*, Dave Roberts, 2011, Craftsman Book Company, (800) 829-8123, [www.craftsman-book.com/products](http://www.craftsman-book.com/products)

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## 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

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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](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](http://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, 16<sup>th</sup> Edition, Portland Cement Association, (847) 966-6200, [www.cement.org](http://www.cement.org)

- *Pipe and Excavation Contracting*, Dave Roberts, 2011, Craftsman Book Company, (800) 829-8123, [www.craftsman-book.com/products](http://www.craftsman-book.com/products)
- *International Building Code*, 2006, International Code Council, (800) 786-4452, [www.iccsafe.org](http://www.iccsafe.org)  
*Beginning July 14 either the 2006 or the 2015 edition of the code can be used. After Nov. 1, only the 2015 edition can be used.*
- *International Residential Code for One- and Two-Family Dwellings*, 2006, International Code Council, (800) 786-4452, [www.iccsafe.org](http://www.iccsafe.org)  
*Beginning July 14 either the 2006 or the 2015 edition of the code can be used. After Nov. 1, only the 2015 edition can be used.*
- *SP-004 Formwork for Concrete*, 8th edition, 2014, David W. Johnson; American Concrete Institute; <https://www.concrete.org/store>
- *Placing Reinforcing Bars, Recommended Practices*, 2011 or later printin, 9<sup>th</sup> 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](http://www.concrete.org)

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## CONCRETE PAVEMENT CONTRACTOR

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

### CONTENT OUTLINE

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

### REFERENCE LIST

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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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- *Placing Reinforcing Bars, Recommended Practices*, 2011 or later printing, 9<sup>th</sup> 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](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.psiolinestore.com](http://www.psiolinestore.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](http://www.dipra.org).
- *Pipe and Excavation Contracting*, Dave Roberts, 2011, Craftsman Book Company, (800) 829-8123, [www.craftsman-book.com/products](http://www.craftsman-book.com/products)
- *Pipe Welding Procedures*, 2003, Hoobasar Rampaul, Industrial Press, [www.amazon.com](http://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 Joint Institute, 234 W. Cheves Street, Florence, SC 29501, Phone: (843) 407-4091, Fax (843) 407-4044, [www.steeljoist.org](http://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](http://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](http://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](http://www.concrete-pipe.org)
- *Design and Control of Concrete Mixtures*, Steven H. Kosmatka, 16<sup>th</sup> Edition, Portland Cement Association, <http://members.cement.org>.
- *Formwork for Concrete*, M.K. Hurd, 2014 (8<sup>th</sup> edition), American Concrete Institute, (248) 848-3700, [www.concrete.org](http://www.concrete.org).
- *Alabama 1Call - Dig Safely*; AL Act 94-487 S.299; [www.al1call.com](http://www.al1call.com)

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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.

## 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

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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:**

- *Contren Learning Series - Conveyors*, 0-13-873761-4, Prentice-Hall PTR, Upper Saddle River, New Jersey 07458, (800) 922-0579, [www.phptr.com](http://www.phptr.com), [www.phdirect.com](http://www.phdirect.com)  
-OR-  
*Conveyors Module 15401-08, NCCER Millwright Level Four*, [www.nccer.org/olf](http://www.nccer.org/olf)
- *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](http://www.phptr.com), [www.phdirect.com](http://www.phdirect.com)  
-OR-  
*Conveyors Troubleshooting and Repairing Conveyors Module 15402-08, NCCER Millwright Level Four*, [www.nccer.org/olf](http://www.nccer.org/olf)
- *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](http://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](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](http://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](http://www.boltcouncil.org).
- ASME B20.1-2012 Safety Standard for Conveyors and Related Equipment

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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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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](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](http://www.pSIONlinestore.com), (866) 589-3088 (See order form at the end of the Candidate Information Bulletin.)
- International Building Code, 2006, International Code Council, (800) 786-4452, [www.iccsafe.org](http://www.iccsafe.org)  
*Beginning July 14 either the 2006 or the 2015 edition of the code can be used. After Nov. 1, only the 2015 edition can be used.*
- International Residential Code for One- and Two-Family Dwellings, 2006, International Code Council, (800) 786-4452, [www.iccsafe.org](http://www.iccsafe.org)  
*Beginning July 14 either the 2006 or the 2015 edition of the code can be used. After Nov. 1, only the 2015 edition can be used.*
- Carpentry and Building Construction, 2010 or 2016 (Student Edition), John L. Feirer and Mark D. Feirer, McGraw-Hill, [www.mheducation.com](http://www.mheducation.com)
- Glass Installer Reference Manual, 2002 or 2005, National Glass Association, [www.icontractor.net](http://www.icontractor.net)
- Guide to Glass & Glazing Requirements of the Model Building Codes, 5<sup>th</sup> edition, 2016 or earlier, National Glass Association, (866)-342-5642 Ext. 127, [www.glass.org](http://www.glass.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.

## 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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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.  
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**The following reference material is allowed in the examination center:**

- *Alabama 1Call - Dig Safely*; AL Act 94-487 S.299; [www.al1call.com](http://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\\_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.psiolinestore.com](http://www.psiolinestore.com), (866) 589-3088 (See order form at the end of the Candidate Information Bulletin.)
- *Design and Control of Concrete Mixtures*, Steven H. Kosmatka, 16<sup>th</sup> 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](http://www.craftsman-book.com/products)
- *Design and Construction of Urban Storm Water Management Systems*, 1992 American Society of Civil Engineers, [www.asce.org](http://www.asce.org)

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- *Alabama 1Call - Dig Safely*; AL Act 94-487 S.299; [www.al1call.com](http://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\\_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.psiolinestore.com](http://www.psiolinestore.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](http://www.craftsman-book.com/products)
- *Simplified Irrigation Design*, Pete Melby, 1995, 2<sup>nd</sup> edition, John Wiley and Sons, Inc., (201) 748-6000, [www.wiley.com](http://www.wiley.com)
- *Design and Control of Concrete Mixtures*, Steven H. Kosmatka, 16<sup>th</sup> 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](http://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

## 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](http://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](http://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](http://www.nfpa.org)
- *National Electrical Code, NEC*, 2014, National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169, (800) 344-3555, [www.nfpa.org](http://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](http://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 (7<sup>th</sup> edition), Jack E. Ingels, [www.delmar.com](http://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](mailto:press@ihl.state.ms.us), [upress.state.ms.us](http://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](http://www.delmar.com/delmar.html).

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.

## 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.psiolinestore.com](http://www.psiolinestore.com), (866) 589-3088 (See order form at the end of the Candidate Information Bulletin.)
- *Construction Planning, Equipment, and Methods*, 7<sup>th</sup> Edition, Peurifoy, Robert L., [www.amazon.com](http://www.amazon.com).
- *Pipe and Excavation Contracting*, Dave Roberts, 2011, Craftsman Book Company, (800) 829-8123, [www.craftsman-book.com/products](http://www.craftsman-book.com/products)
- *Design and Control of Concrete Mixtures*, Steven H. Kosmatka, 16<sup>th</sup> Edition, Portland Cement Association, <http://members.cement.org>.
- *Placing Reinforcing Bars, Recommended Practices*, 2011 or later printing, 9<sup>th</sup> 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*, 3<sup>rd</sup> Edition, 2003, Post Tensioning Institute, (248) 848-3180, [www.post-tensioning.org](http://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](http://www.asce.org)
- *Alabama 1Call - Dig Safely*; AL Act 94-487 S.299; [www.al1call.com](http://www.al1call.com)
- *Storm Water Management for Construction Activities*, 1992, Environmental Protection Agency, (202) 272-0167, [www.epa.gov/npdes/pubs/owm0307.pdf](http://www.epa.gov/npdes/pubs/owm0307.pdf)
- *Formwork for Concrete*, M.K. Hurd, 2014 (8<sup>th</sup> edition), American Concrete Institute, (248) 848-3700, [www.concrete.org](http://www.concrete.org).
- *Erectors' Manual - Standards and Guidelines for the Erection of PreCast Concrete Products*, 2<sup>nd</sup> Edition, 1999, Precast/Prestressed Concrete Institute (PCI), (312) 786-0300, [info@pci.org](mailto:info@pci.org)

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## **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

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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](http://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](http://www.nfpa.org)
- *Recommended Practices for Installation of Underground Liquid Storage Systems (RP100)*, 2011, Petroleum Equipment Institute, (918) 494-9696, [www.pei.org](http://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](http://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](mailto: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](https://www.osha.gov/pls/oshaweb/owastand.display_standard_group?p_toc_level=1&p_part_number=1926)  
**OR**  
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- *Pipe and Excavation Contracting*, Dave Roberts, 2011, Craftsman Book Company, (800) 829-8123, [www.craftsman-book.com/products](http://www.craftsman-book.com/products)
- *Alabama 1Call - Dig Safely*; AL Act 94-487 S.299; [www.al1call.com](http://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\\_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.psiolinestore.com](http://www.psiolinestore.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](http://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/](http://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>

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.

### 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

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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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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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**OR**  
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- *Alabama 1Call - Dig Safely*; AL Act 94-487 S.299; [www.al1call.com](http://www.al1call.com)
- *Storm Water Management for Construction Activities*, 1992, Environmental Protection Agency, (202) 272-0167, [www.epa.gov/npdes/pubs/owm0307.pdf](http://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*, 2<sup>nd</sup> Edition, 2003, Division of Coastal Management, NC Department of Environmental Resources, Raleigh, NC, [www.arena.org/practical\\_guide.htm](http://www.arena.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.arena.org/pubs/pubs.htm](http://www.arena.org/pubs/pubs.htm)
- *Pipe and Excavation Contracting*, Dave Roberts, 2011, Craftsman Book Company, (800) 829-8123, [www.craftsman-book.com/products](http://www.craftsman-book.com/products)
- *Design and Control of Concrete Mixtures*, Steven H. Kosmatka, William C. Panarese, 16<sup>th</sup> Edition, Portland Cement Association, 5420 Old Orchard Road, Skokie, IL 60077-1083, (847) 966-6200, [www.portcement.org/bookstore](http://www.portcement.org/bookstore)
- *Placing Reinforcing Bars, Recommended Practices*, 2011 or later printing, 9<sup>th</sup> 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*, 2<sup>nd</sup> Edition, 1999, Precast/Prestressed Concrete Institute (PCI), (312) 786-0300, [info@pci.org](mailto: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](http://www.McGraw-hill.com)

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## 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

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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. 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](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](http://www.psionlinestore.com), (866) 589-3088 (See order form at the end of the Candidate Information Bulletin.)
- *Construction Planning, Equipment, and Methods*, 6th Edition, 2002, Peurifoy, Robert L., P.E., McGraw-Hill, P.O. Box 182605, Columbus, OH 43218-2605, (800) 338-3987, [www.McGraw-hill.com](http://www.McGraw-hill.com)
- *Pipe and Excavation Contracting*, Dave Roberts, 2011, Craftsman Book Company, (800) 829-8123, [www.craftsman-book.com/products](http://www.craftsman-book.com/products)





- *Design and Control of Concrete Mixtures*, Steven H. Kosmatka, 16<sup>th</sup> Edition, Portland Cement Association, <http://members.cement.org>.
- *Hot-Mix Asphalt Paving Handbook (MAPH-2)*, 2000, AASHTO Publications, 444 North Capitol Street, NW, Suite 249, Washington, DC 20001, (202) 624-5800, [ashto@ashto.org](mailto:ashto@ashto.org)
- *Placing Reinforcing Bars, Recommended Practices*, 2011 or later printing, 9<sup>th</sup> 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/>
- *Instructional Manual for Training and Certification of Field Personnel for Unbonded Post-Tensioning*, 3<sup>rd</sup> Edition, 2003, Post Tensioning Institute, (248) 848-3180, [www.post-tensioning.org](http://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](http://www.asce.org)
- *Alabama 1Call - Dig Safely*; AL Act 94-487 S.299; [www.al1call.com](http://www.al1call.com)
- *Storm Water Management for Construction Activities*, 1992, Environmental Protection Agency, (202) 272-0167, [www.epa.gov/npdes/pubs/owm0307.pdf](http://www.epa.gov/npdes/pubs/owm0307.pdf)
- *Manual on Uniform Traffic Control Devices for Streets and Highways*, 2009, US Department of Transportation - Federal Highway Administration, (202) 366-0537, <http://www.fhwa.dot.gov/>.

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.

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- OR
- *Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI*, with latest available amendments, [www.psionlinestore.com](http://www.psionlinestore.com), (866) 589-3088 (See order form at the end of the Candidate Information Bulletin.)
- *Asphalt in Pavement Maintenance (MS-16)*, 3<sup>rd</sup> edition, Asphalt Institute, (859) 288-4960, [www.asphaltinstitute.org](http://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](http://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, 15<sup>th</sup> Edition, 16<sup>th</sup> Edition, Portland Cement Association, <http://members.cement.org>.

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## HOT AND COLD ASPHALT PLANT MIX PAVING CONTRACTOR

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

### 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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## 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



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- *International Residential Code for One- and Two-Family Dwellings*, 2006, International Code Council, (800) 786-4452, [www.iccsafe.org](http://www.iccsafe.org)  
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OR  
*Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI*, with latest available amendments, [www.psiolinestore.com](http://www.psiolinestore.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](http://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](http://www.mheducation.com)

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## 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



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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](https://www.osha.gov/pls/oshaweb/owastand.display_standard_group?p_toc_level=1&p_part_number=1926)  
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- *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](http://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*, 2008, or The National Electrical Code Handbook, National Fire Protection Association (NFPA), (800) 344-3555, [www.nfpa.org](http://www.nfpa.org)
- *NFPA 72 - National Fire Alarm Code*, 2007, National Fire Protection Association (NFPA), (800) 344-3555, [www.nfpa.org](http://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](http://www.books.mcgraw-hill.com)
- *Telecommunications Wiring*, Clyde Herrick, 2001, 3rd Edition, Prentice-Hall PTR, (800) 382-3419, [www.prenhall.com](http://www.prenhall.com)
- *Understanding and Servicing Alarm Systems*, 1999, 3rd Edition, Butterworth-Heinemann (Reed Publishing), (800) 545-2522, [www.bh.com](http://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](http://www.amazon.com)
- *Antenna Toolkit*, Joe Carr, 2001, 2nd edition, Butterworth-Heinemann (Reed Publishing), (800) 545-2522, [www.bh.com](http://www.bh.com)
- *Data, Voice, and Video Cabling*, Jim Hayes, Paul Rosenberg, 2009, 3rd Edition, Delmar Cengage Learning, (800) 347-7707, [www.delmarlearning.com](http://www.delmarlearning.com)

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## MARINE CONSTRUCTION CONTRACTOR

# of Questions	Minimum Passing Score	Time Allowed
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50	70% (35 correct)	120 Minutes
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### 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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- *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](http://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	Time Allowed
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	<b>Passing Score</b>	
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

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- *International Building Code, 2006*, International Code Council, (800) 786-4452, [www.iccsafe.org](http://www.iccsafe.org)  
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- *Modern Masonry - Brick, Block, Stone, Clois E. Kicklighter*, 8th edition (2015). The Goodheart-Willcox Company, (800) 323-0440, [www.g-w.com](http://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](http://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

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- *International Residential Code for One- and Two-Family Dwellings, 2006*, International Code Council, (800) 786-4452, [www.iccsafe.org](http://www.iccsafe.org)
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OR  
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- *Metal Building Systems Manual*, 2012, Metal Building Manufacturers Association, 1300 Summer Ave, Cleveland OH 44115, [www.mbma.com](http://www.mbma.com)
- *ASTM C 754 - Standard Specification for Installation of Steel Framing Members to Receive Screw-Attached Gypsum Panel Products*, 2011, American Society for Testing & Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959
- *ASTM C 1007 - Standard Specification for Installation of Load Bearing (Transverse and Axial) Steel Studs and Related Accessories*, 2011, American Society for Testing & Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959
- *The Contractor's Guide to Quality Concrete Construction*, 2018, 4th Edition, American Concrete Institute, (248) 848-3700, <https://www.amazon.com/Contractors-Guide-Quality-Concrete-Construction/dp/1641950471>

Beginning on 11/05/2020, the exam may have questions sourced to these two new references:

*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](http://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.eima.com/cart/add/ANSI-EIMA-99-A-2017>
- *Energy Design Guidelines for Metal Building Systems*, 2010, Metal Building Manufacturers Association, 1300 Summer Ave, Cleveland OH 44115, [www.mbma.com](http://www.mbma.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	Time Allowed
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	Passing Score	
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

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*Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI*, with latest available amendments, [www.psionlinestore.com](http://www.psionlinestore.com), (866) 589-3088 (See order form at the end of the Candidate Information Bulletin.)
- *International Building Code*, 2006, International Code Council, (800) 786-4452, [www.iccsafe.org](http://www.iccsafe.org)  
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- *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](http://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](http://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](http://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

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- *Recommended Practices for Installation of Aboveground Storage Systems for Motor-Vehicle Fueling (RP200)*, 2013, Petroleum Equipment Institute, (918) 494-9696, [www.pei.org](http://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](http://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](http://www.asme.org)





- *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, 12<sup>th</sup> edition (2012) or 13<sup>th</sup> edition (2017), [www.amazon.com](http://www.amazon.com).
- *Installation Guide for Ductile Iron Pipe*, 2007 (revised 2012), Ductile Iron Pipe Research Association, [www.dipra.org](http://www.dipra.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](http://www.concrete-pipe.org)
- *Pipe and Excavation Contracting*, Dave Roberts, 2011, Craftsman Book Company, (800) 829-8123, [www.craftsman-book.com/products](http://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](http://www.asce.org)
- *Erectors' Manual - Standards and Guidelines for the Erection of PreCast Concrete Products*, 2<sup>nd</sup> Edition, 1999, Precast/Prestressed Concrete Institute (PCI), (312) 786-0300, [info@pci.org](mailto: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](http://www.g-w.com)
- *Design and Control of Concrete Mixtures*, Steven H. Kosmatka, William C. Panarese, 16<sup>th</sup> Edition, Portland Cement Association, 5420 Old Orchard Road, Skokie, IL 60077-1083, (847) 966-6200, [www.portcement.org/bookstore](http://www.portcement.org/bookstore)
- *Guide to Shotcrete*, 1995, American Concrete Institute, P.O. Box 9094, Farmington Hills, MI 48333, (248) 848-3700, [www.aci-int.org/bookstore/bkstr.asp](http://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](http://www.epa.gov/npdes/pubs/owm0307.pdf)
- *Alabama 1Call - Dig Safely; AL Act 94-487 S.299*; [www.al1call.com](http://www.al1call.com)
- *Certified Pool-Spa Operators Handbook*, 2006, National Swimming Pool Foundation, 10803 Gulfdale Suite 300, San Antonio, TX 78216, (516) 623-3447, [www.nspf.com](http://www.nspf.com)

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## OIL AND GAS FIELDS CONTRACTOR

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

### CONTENT OUTLINE

Subject Area	# of
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	Items
Tanks and Pipelines	12
Miscellaneous Structure / Corrosion Protection	6
Welding	4
Heavy Equipment / Safety	4
Paving and Surfacing	4

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**OR**  
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- *49 CFR Parts 178-199 (Transportation)*, 2004, Subchapter D, Pipeline Safety, (866) 512-1800, [www.bookstore.gpo.gov](http://www.bookstore.gpo.gov) OR [www.osha.gov](http://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](http://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](http://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](http://www.g-w.com)
- *Pipe and Excavation Contracting*, Dave Roberts, 2011, Craftsman Book Company, (800) 829-8123, [www.craftsman-book.com/products](http://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](https://www.techstreet.com/standards/api-std-620?product_id=1534905)
- *Welded Steel Tanks for Oil Storage - API Standard 650*, 2013 (12<sup>th</sup> 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

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- *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/](http://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](http://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

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- *Alabama 1Call - Dig Safely*; AL Act 94-487 S.299; [www.al1call.com](http://www.al1call.com)
- *Storm Water Management for Construction Activities*, 1992, Environmental Protection Agency, (202) 272-0167, [www.epa.gov/npdes/pubs/owm0307.pdf](http://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](http://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](http://www.nfpa.org)

- *Recommended Practices for Installation of Underground Liquid Storage Systems (RP100)*, 2011, Petroleum Equipment Institute, (918) 494-9696, [www.pei.org](http://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](http://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](http://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](http://www.asme.org)
- *Pipe and Excavation Contracting*, Dave Roberts, 2011, Craftsman Book Company, (800) 829-8123, [www.craftsman-book.com/products](http://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](http://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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- OR
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- *International Building Code*, 2006, International Code Council, 5203 Leesburg Pike, Suite 600 Falls Church, VA 22041, 7039314533, [www.intlcode.org/](http://www.intlcode.org/)  
*Beginning July 14 either the 2006 or the 2015 edition of the code can be used. After Nov. 1, only the 2015 edition can be used.*
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- *Formwork for Concrete*, M.K. Hurd, 2005, 7th edition, American Concrete Institute, (248) 848-3700, [www.aciint.org](http://www.aciint.org)
- *Design and Control of Concrete Mixtures*, Steven H. Kosmatka, William C. Panarese, 16<sup>th</sup> Edition, Portland Cement Association, 5420 Old Orchard Road, Skokie, IL 60077-1083, (847) 966-6200, [www.portcement.org/bookstore](http://www.portcement.org/bookstore)
- *Saw cutting Joints in Concrete*, Bruce A. Suprenant, 1995, Concrete Construction Magazine, (773) 824-2400, <ftp://imgs.ebuild.com/woc/C950054.pdf>
- *Saw cutting Concrete Flatwork*, Rosalie Johnston, 1994, Concrete Construction Magazine, (773) 824-2400, <ftp://imgs.ebuild.com/woc/C940483.pdf>
- *Taking the Tedium Out of Cutting*, 1981, Concrete Construction Magazine, (773) 824-2400, <ftp://imgs.ebuild.com/woc/C810049.pdf>
- *Tips for Cutting Concrete*, 1987, Concrete Construction Magazine, (773) 824-2400, <ftp://imgs.ebuild.com/woc/C870626.pdf>
- *Erectors' Manual - Standards and Guidelines for the Erection of PreCast Concrete Products*, 2<sup>nd</sup> Edition, 1999, Precast/Prestressed Concrete Institute (PCI), (312) 786-Placing Reinforcing Bars, *Recommended Practices*, 2011 or later printing, 9<sup>th</sup> 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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- *Lineman's and Cableman's Handbook*, Shoemaker and Mack, 12<sup>th</sup> edition (2012) or 13<sup>th</sup> edition (2017), [www.amazon.com](http://www.amazon.com).
- *American Electricians' Handbook*, Croft, Hartwell, and Summers, 16th Edition, 2013, McGraw-Hill, (800) 262-4729, [shop.mcgraw-hill.com](http://shop.mcgraw-hill.com)
- *National Electrical Code, 2002*, National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169, (800) 344-3555, [www.nfpa.org](http://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

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- *Carpentry and Building Construction*, 2010 or 2016 (Student Edition), John L. Feirer and Mark D. Feirer, McGraw-Hill, [www.mheducation.com](http://www.mheducation.com)
- *Finish Carpenter's Manual*, Jim Tolpin, 1993, Craftsman Book Company, (800) 829-8123, [www.craftsman-book.com](http://www.craftsman-book.com)





- *International Building Code*, 2006, International Code Council, 5203 Leesburg Pike, Suite 600 Falls Church, VA 22041, 7039314533, [www.intlcode.org/](http://www.intlcode.org/)  
*Beginning July 14 either the 2006 or the 2015 edition of the code can be used. After Nov. 1, only the 2015 edition can be used.*
- *Design and Control of Concrete Mixtures*, Steven H. Kosmatka, William C. Panarese, 16<sup>th</sup> Edition, Portland Cement Association, 5420 Old Orchard Road, Skokie, IL 60077-1083, (847) 966-6200, [www.portcement.org/bookstore](http://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](http://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.

- *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.psonlinestore.com](http://www.psonlinestore.com), (866) 589-3088 (See order form at the end of the Candidate Information Bulletin.)
- *International Building Code*, 2006, International Code Council, (800) 786-4452, [www.iccsafe.org](http://www.iccsafe.org)  
*Beginning July 14 either the 2006 or the 2015 edition of the code can be used. After Nov. 1, only the 2015 edition can be used.*
- *International Residential Code for One- and Two-Family Dwellings*, 2006, International Code Council, (800) 786-4452, [www.iccsafe.org](http://www.iccsafe.org)  
*Beginning July 14 either the 2006 or the 2015 edition of the code can be used. After Nov. 1, only the 2015 edition can be used.*
- *Roofing Construction and Estimating*, Daniel Atcheson, 1995, Craftsman Book Company, (800) 829-8123, [www.craftsman-book.com/products](http://www.craftsman-book.com/products)
- *NRCA Roofing Manual: Steep Slope Roof Systems*, 2018, The National Roofing Contractors Association, (847) 299-9070, [www.nrca.net](http://www.nrca.net)
- *NRCA Roofing Manual: Membrane Roofing Systems*, 2019, The National Roofing Contractors Association, (866) 275-6722, [www.nrca.net](http://www.nrca.net)

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## 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:*

## 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, 7<sup>th</sup> edition, Pearson Education, Inc., (201) 236-7000, [www.pearsoned.com](http://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/](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). 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.

## 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

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:**

*International Plumbing Code*, 2006 Edition, International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478-5795, [www.iccsafe.org](http://www.iccsafe.org).

*Beginning July 14 either the 2006 or the 2015 edition of the code can be used. After Nov. 1, only the 2015 edition can be used.*

- *Code of Federal Regulations - 29 CFR Part 1926 (OSHA)*, with latest available amendments, U.S. Government

Printing Office, (866) 512-1800 or [https://www.osha.gov/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](http://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](http://www.pubs.asce.org).
- *Pipe and Excavation Contracting*, Dave Roberts, 2011, Craftsman Book Company, (800) 829-8123, [www.craftsman-book.com/products](http://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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- 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\\_standar\\_group?p\\_toc\\_level=1&p\\_part\\_number=1926](https://www.osha.gov/pls/oshaweb/owastand.display_standar_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.psonlinestore.com](http://www.psonlinestore.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](http://www.craftsman-book.com/products)  
International Building Code, 2006, International Code Council, (800) 786-4452, [www.iccsafe.org](http://www.iccsafe.org)  
*Beginning July 14 either the 2006 or the 2015 edition of the code can be used. After Nov. 1, only the 2015 edition can be used.*

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OR  
Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI, with latest available amendments, [www.psonlinestore.com](http://www.psonlinestore.com), (866) 589-3088 (See order form at the end of the Candidate Information Bulletin.)  
International Residential Code for One- and Two-Family Dwellings, 2006, International Code Council, (800) 786-4452, [www.iccsafe.org](http://www.iccsafe.org)  
*Beginning July 14 either the 2006 or the 2015 edition of the code can be used. After Nov. 1, only the 2015 edition can be used.*
- Pipe and Excavation Contracting, Dave Roberts, 2011, Craftsman Book Company, (800) 829-8123, [www.craftsman-book.com/products](http://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](http://www.books.mcgraw-hill.com)
- Alabama 1Call - Dig Safely; AL Act 94-487 S.299; [www.al1call.com](http://www.al1call.com)

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## 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

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:**

## 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

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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:

- *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](http://www.McGraw-hill.com)
- *Technical Digest No. 9 - Handling and Erection of Steel Joists and Joist Girders*, 3rd Edition, 2008, Steel Joint Institute, 234 W. Cheves Street, Florence, SC 29501, Phone: (843) 407-4091, Fax (843) 407-4044, [www.steeljoist.org](http://www.steeljoist.org).
- *Principles and Practices of Commercial Construction, the 2014 9th Edition thru November 4, 2020. Beginning November 5, 2020 the candidate can only use the 2019 10th Edition.* Cameron K. Andres and Ronald C. Smith, Pearson Education, Inc., One Lake Street, Upper Saddle River, NJ 07458, Phone (201) 236-7000 [https://www.amazon.com/Principles-Practices-Commercial-Construction-Technology/dp/0134704665/ref=sr\\_1\\_1?crd=PXVLRERQ57AF&dchild=1&keywords=principles+and+practices+of+commercial+construction%2C+10th+edition&qid=1600246909&srefix=principles+and+practices+of+commer%2Caps%2C216&sr=8-1](https://www.amazon.com/Principles-Practices-Commercial-Construction-Technology/dp/0134704665/ref=sr_1_1?crd=PXVLRERQ57AF&dchild=1&keywords=principles+and+practices+of+commercial+construction%2C+10th+edition&qid=1600246909&srefix=principles+and+practices+of+commer%2Caps%2C216&sr=8-1) *The new 10th edition will be used beginning November 5, 2020.*
- *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](http://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](http://www.sdi.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.

## 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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**OR**  
*Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI*, with latest available amendments, [www.psionlinestore.com](http://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](http://www.al1call.com)
- *Storm Water Management for Construction Activities*, 1992, Environmental Protection Agency, (202) 272-0167, [www.epa.gov/npdes/pubs/owm0307.pdf](http://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](http://www.McGraw-hill.com)
- *Antenna Toolkit*, 2<sup>nd</sup> Edition, 2001, Joe Carr, Butterworth-Heinemann (Reed Publishing), 313 Washington Street, Newton, MA 02158-1626, (781) 221-2212, [www.bh.com](http://www.bh.com)
- *Design and Control of Concrete Mixtures*, Steven H. Kosmatka, William C. Panarese, 16<sup>th</sup> Edition, Portland Cement Association, 5420 Old Orchard Road, Skokie, IL 60077-1083, (847) 966-6200, [www.portcement.org/bookstore](http://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](http://www.g-w.com)
- *Pipe and Excavation Contracting*, Dave Roberts, 2011, Craftsman Book Company, (800) 829-8123, [www.craftsman-book.com/products](http://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](http://www.delmarlearning.com)

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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.

Alexander Bell Drive, Reston, VA 20191-4400, (800) 548-2723, [www.asce.org](http://www.asce.org)

## 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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- 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.psiolinestore.com](http://www.psiolinestore.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](http://www.al1call.com)
- Storm Water Management for Construction Activities, 1992, Environmental Protection Agency, (202) 272-0167, [www.epa.gov/npdes/pubs/owm0307.pdf](http://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](http://www.McGraw-hill.com)
- Pipe and Excavation Contracting, Dave Roberts, 2011, Craftsman Book Company, (800) 829-8123, [www.craftsman-book.com/products](http://www.craftsman-book.com/products)
- Jacked Tunnel Design and Construction, 1998, Marco D. Boscardin, American Society of Civil Engineers, 1801

- 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](http://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](http://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. Stolz, Jacobs Associates, 500 Sansome Street, Suite 700, San Francisco, CA 94111, (415) 434-1822, [www.jacobssf.com](http://www.jacobssf.com)
- Design and Control of Concrete Mixtures, Steven H. Kosmatka, William C. Panarese, 16<sup>th</sup> Edition, Portland Cement Association, 5420 Old Orchard Road, Skokie, IL 60077-1083, (847) 966-6200, [www.portcement.org/bookstore](http://www.portcement.org/bookstore)
- Instructional Manual for Training and Certification of Field Personnel for Unbonded Post-Tensioning, 3<sup>rd</sup> Edition, 2003, Post Tensioning Institute, (248) 848-3180, [www.post-tensioning.org](http://www.post-tensioning.org)
- Placing Reinforcing Bars, Recommended Practices, 2011 or later printing, 9<sup>th</sup> 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

and must be removed from the reference before the exam will begin.

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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](https://www.osha.gov/pls/oshaweb/owastand.display_standard_group?p_toc_level=1&p_part_number=1926)  
**OR**  
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- *Pipe and Excavation Contracting*, Dave Roberts, 2011, Craftsman Book Company, (800) 829-8123, [www.craftsman-book.com/products](http://www.craftsman-book.com/products)
- *Design and Control of Concrete Mixtures*, Steven H. Kosmatka, William C. Panarese, 16<sup>th</sup> Edition, Portland Cement Association, 5420 Old Orchard Road, Skokie, IL 60077-1083, (847) 966-6200, [www.portcement.org/bookstore](http://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](http://www.aci-int.org/bookstore/bkstr.asp)
- *Placing Reinforcing Bars, Recommended Practices*, 2011 or later printing, 9<sup>th</sup> Edition, Concrete Reinforcing Steel Institute, , 933 North Plum Grove Rd, Schaumburg, IL 60173, Phone (800) 328-6306, <http://www.crsi.org/>
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- *Alabama 1Call - Dig Safely*; AL Act 94-487 S.299; [www.al1call.com](http://www.al1call.com)
- *PVC Pipe - Design and Installation - AWWA Manual M23*, 2002, 2<sup>nd</sup> edition, American Water Works Association, (800) 926-7335, [www.awwa.org](http://www.awwa.org)
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