



# Denver, Colorado Contractor/Trades Examination Information Bulletin

Published January 2, 2020

This edition supersedes all bulletin  
editions published prior to the above date.

*This bulletin answers most questions raised by examination  
candidates. Please read it carefully. You will find it a useful  
reference throughout your registration and examination process*

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## SUMMARY OF BULLETIN CHANGES

Date of Change	Section Affected	Revision
January 20, 2017	Denver, Colorado Contractor/Trades Examinations	Corrected reference error in 490 exam
April 26, 2017	Denver, Colorado Contractor/Trades Examinations	Corrected F34 exam to reflect P&P exam administration only
December 28, 2017	Denver, Colorado Contractor/Trades Examinations	Added increased pricing, effective January 1, 2018
December 28, 2017	Feedback and Appeals	Removed hand score option; no longer available, effective January 1, 2018
December 28, 2017	Denver, Colorado Contractor/Trades Bulletin	Updated links and table of contents throughout bulletin
August 2, 2018	Denver, Colorado Contractor/Trades Bulletin	Removed review session information; no longer available, effective June 30, 2018
August 2, 2018	Denver, Colorado Contractor/Trades Examinations	Added information on the 380 and 493 exams available through PRONTO
November 15, 2018	Denver, Colorado Contractor/Trades Bulletin	Corrected National Contractor exams
October 7, 2019	Denver, Colorado Contractor/Trades Bulletin	Added information on the 380 exam availability via PRONTO testing method
December 9, 2019	Denver, Colorado Contractor/Trades Bulletin	Removed duplicate examinations

Use the checklists and information summaries in this bulletin to familiarize yourself with the testing process. Be sure to completely read this bulletin before scheduling your examination.

**You are responsible** for following all policies and regulations found in this document. Not reading this bulletin does not release your responsibility for following these procedures.

## How do I...

• schedule an exam?	Visit <a href="http://www.pearsonvue.com/icc">www.pearsonvue.com/icc</a> or call Pearson VUE at 1-877-234-6082
• change my name or address?	If you are taking the 380 or 493 exams, please contact the Assessment Center at <a href="mailto:askac@iccsafe.org">askac@iccsafe.org</a> . Visit <a href="http://www.iccsafe.org/ac-forms-library/">www.iccsafe.org/ac-forms-library/</a> and complete the <b>Change of Candidate Information</b> form. Email or mail ICC this form containing your name, old and new addresses, contact phone number, and signature; ICC will advise if additional documentation is needed <b>Email:</b> <a href="mailto:customersuccess@iccsafe.org">customersuccess@iccsafe.org</a>
• request a duplicate pass letter?	Visit <a href="http://www.iccsafe.org/ac-forms-library/">www.iccsafe.org/ac-forms-library/</a> and choose the application: Fee Schedule for Optional Services (Contractor)
• request special testing accommodations?	Call Pearson VUE at 1-800-466-0450 and ask for special arrangements
• make comments about an exam I took?	See page 9 for more information on the exam feedback and appeals process
• reschedule an exam?	Call Pearson VUE at 1-877-234-6082 prior to your scheduled exam—see page 14 for deadlines
• cancel an exam?	Call Pearson VUE at 1-877-234-6082 prior to your scheduled exam—see page 14 for deadlines
• find my exam code (ID)?	See pages 17-24 for the exam outline listings in this bulletin
• know what I can take into the exam?	See page 10 for the Test Site Regulations section
• obtain the books for my exam?	Most references can be purchased at <a href="http://shop.iccsafe.org">shop.iccsafe.org</a> ; more information is found in the exam outline listings starting on page 17
• access information on my passed exams on ICC's website?	Visit <a href="http://www.iccsafe.org/certification-contractor-verification">www.iccsafe.org/certification-contractor-verification</a> for the Contractor Exam pass link
• become an ICC member?	Visit <a href="http://www.iccsafe.org/membership">www.iccsafe.org/membership</a> to access the ICC membership application

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### **International Code Council Vision**

Protect the health, safety, and welfare of people  
by creating safe buildings and communities.

### **International Code Council Mission**

To provide the highest quality codes, standards, products, and services  
for all concerned with the safety and performance of the built environment.

**Information contained in this bulletin is deemed accurate as of the time of printing.**

**Contents are subject to change at any time.**

**For the most updated information, visit [www.iccsafe.org/contractor](http://www.iccsafe.org/contractor).**

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**Note:** Examination requirements, including registration/scheduling, dates, locations, fees, and references are subject to change. Please make sure that you have the most current information before registering for/scheduling any examination. For up-to-date information on Code Council examinations, go to [www.iccsafe.org/contractor](http://www.iccsafe.org/contractor) or call 1-888-ICC-SAFE (422-7233), ext. 5524.

## ***About Code Council Contractor/Trades Testing***

The International Code Council's Contractor/Trades examination program is an independent testing program designed to provide licensing agencies with information regarding qualified contractors and trades professionals. Participating in the Code Council examination program does not guarantee that a licensing agency will award you a license. However, the Code Council examination program serves as an independent appraisal of your competency in the construction field, and your test results may be used by licensing agencies to satisfy the requirements for testing.

Examination information, including registration/scheduling requirements, dates, locations, fees, and references, are subject to change. **Candidates should make sure they have the most current information before registering for/scheduling a Code Council examination by going to [www.iccsafe.org/contractor](http://www.iccsafe.org/contractor).**

## ***General Testing Information***

The purpose of this bulletin is to provide you with information regarding how to schedule and take your contractor/trades examination. Prior to scheduling a test with this program, you should first consult with your local or state licensing agency to determine which examination you should take. Some agencies may also require you to meet certain prequalification criteria prior to testing. You should therefore start your testing process by determining what test your local agency requires of you.

This bulletin is designed to follow the testing process from the initial application for testing up until the time when testing results are provided.

# Administrative Rules and Procedures



## FAQ

### How can I become licensed?

The International Code Council is not a licensing agency. If you want to become licensed in a city, county, or state that participates with the Code Council, that jurisdiction will require you to take and pass a Code Council examination. Upon successful completion of the examination, contact the jurisdiction for any other requirements in order to become licensed.

For detailed information on Contractor/Trades examinations and participating jurisdictions, visit our website at [www.iccsafe.org/contractor](http://www.iccsafe.org/contractor).

### How do I schedule a test?

It is your responsibility to read the Examination Information Bulletin for important information on examination requirements, procedures, and references allowed during the examination administration.

For computer-based testing through Pearson VUE, the Code Council's computer-based testing vendor, you may schedule an examination online at [www.pearsonvue.com/icc](http://www.pearsonvue.com/icc). Follow the directions under "Contractor/Trade Licensing." You may also schedule an examination over the phone by contacting Pearson VUE at 1-877-234-6082, following the scheduling procedures listed in this bulletin.

Pre-payment is required to schedule an examination through any of the above methods.

### When can I test?

Computer-testing is administered by Pearson VUE frequently at over 250 sites across the nation. Pearson VUE test dates and sites can be found on their website at [www.pearsonvue.com/icc](http://www.pearsonvue.com/icc).

### How often can I test?

You must wait 10 days before retaking a failed exam. It is strongly recommended that you allow time to study the approved references before registering to test a second time.

### What examination do I need to take?

As requirements for employment differ from jurisdiction to jurisdiction, the Code Council cannot recommend specific examinations to you. We strongly encourage you to contact the jurisdiction in which you wish to work for more information on their specific exam requirements for licensure.

### How do I know if pre-approval is required for me to test?

Contact the licensing agency or review the appropriate National Contractor/Trades Examination Information Bulletin on the Code Council's website at [www.iccsafe.org/certification-exam-catalog](http://www.iccsafe.org/certification-exam-catalog).

### What references or code books are the exams based on?

The approved references for each exam are listed in the Examination Outlines section of this bulletin. For the most up-to-date bulletin information, visit our website at [www.iccsafe.org/certification-exam-catalog](http://www.iccsafe.org/certification-exam-catalog).

You can also contact the Code Council at 1-888-422-7233 ext. 5524 to request a bulletin.

### **Are the examinations open book?**

Most Contractor/Trades exams are open book. Refer to the Examination Outlines section of this bulletin for open/closed book requirements for specific exams. For the most up-to-date bulletin, visit [www.iccsafe.org/certification-exam-catalog](http://www.iccsafe.org/certification-exam-catalog).

Additional policies governing the use of references can be found in the Test Site Regulations section of this bulletin.

### **When will I receive my results?**

Results for examinations taken via computer are available immediately after completion of the examination.

### **I didn't receive my pass letter. Can I have another mailed to me?**

Yes, but the pass letter must be requested within 90 days from the date of the passed examination to have another mailed without a fee. If a resend of a pass letter is requested after 90 days from the exam, a fee will be charged. For fees, go to [www.iccsafe.org/ac-forms-library](http://www.iccsafe.org/ac-forms-library) and select General Requests > Replacement Result Letter.

### **What type of question format will be included in the examination?**

Test questions are in four-option, multiple-choice format, with one answer on each question scored as correct. Due to the rigorous psychometric processes used by the Code Council in exam development, questions do not follow patterns (e.g., "the most common answer is 'B'").

### **Can't I just look up all of the answers in the books?**

Because of the time constraints, you will not have time to look up all of the answers. For those answers you must look up, you must be VERY familiar with the references to avoid wasting time searching for information. First impressions are often the most accurate, but you may change your answers if time allows.

### **How long are the examinations?**

The length and allowed time varies depending upon the subject matter. To get the most updated information on examinations, go to [www.iccsafe.org/certification-exam-catalog](http://www.iccsafe.org/certification-exam-catalog).

### **How many examinations can I take at one administration?**

For computer-based exams, in most cases you may take two exams in one day, as long as each examination is only two hours in length.

### **Should I guess if I don't know the answer to a question?**

There is no guessing penalty, so it is to your advantage to answer every question. Remember to base your answers on the listed references for each exam, not solely on long-time field practices.

### **What score do I need to pass the test?**

Most Contractor/Trades examinations require a candidate to answer at least 70 percent of their questions correctly in order to pass the exam. The Master Electrician examination requires 75 percent of the questions to be answered correctly to pass. Particular licensing agencies may require a passing score of higher than 70. It is important that you carefully read the relevant bulletin or contact the licensing agency for information regarding their minimum passing requirement.

### **Can my exam score be cancelled?**

The Code Council reserves the right to revoke or withhold any examination scores if, in its sole opinion, there is adequate reason to question their validity. Reasons are:

- Giving or receiving assistance with answers during testing
- Using unauthorized materials during testing
- Failing to abide by the rules presented or directions from the proctor(s)
- Attempting to, or removing examination materials or questions from the testing center.

In cases of examination irregularities which are suspected at testing centers, the scores of the individual(s) involved will not be released unless approved by the Code Council. Additional sanctions may be authorized by the Board, which may include restrictions on retesting for up to three (3) years.

Some scores may be rendered invalid because of circumstances beyond the examinee's control, such as faulty examination materials or mistiming. These situations will be investigated; when such occurrences result in cancellation of an examinee's scores, the Code Council will arrange for a makeup examination for the examinees concerned.

The Code Council has implemented procedures to minimize the potential of negative conditions at the examination site such as bad lighting, excessive noise, or uncomfortable temperature conditions. In unlikely cases where such conditions may occur, the required passing score is not modified or changed. If a candidate finds unfavorable conditions at the examination site, we recommend the candidate immediately notify the proctor.



## Feedback and Appeals Process

To have Code Council Assessment Center staff review comments or challenges on specific exams, exam items, or any issues encountered during your examination, you must submit a Contractor Appeals form to the Code Council. The form is available on the Code Council website at [www.iccsafe.org/ac-forms-library/](http://www.iccsafe.org/ac-forms-library/).

Our experience shows that the best comments are those that come as soon after the testing process as possible. Include sufficient amount of detail to aid staff in the review of your challenged question(s) or issues related to the exam experience. Following receipt of your challenge, Certification and Testing staff will investigate each comment for merit and final determination of approval or denial of your challenge.

You will be mailed a response from Assessment Center staff within 15 business days from receipt of the form by the Code Council; a request for staff review is based solely upon the most recent examination taken.



**IMPORTANT NOTE:** If you retake a failed exam on which you have submitted an appeal, you will forfeit your appeal opportunity for that exam attempt.

Comment/Challenge forms must be sent to the following mailing or email address:

International Code Council  
ATTN: Candidate Services Coordinator  
900 Montclair Road  
Birmingham, AL 35213

Email: [appeals@iccsafe.org](mailto:appeals@iccsafe.org)

# Test Site Regulations

To ensure the security of examination materials, reliable test results, and public confidence in the integrity of certified professionals, the rules and procedures below are strictly enforced at all Code Council examinations.

## What should I bring to the test site?

Examinees must provide their testing confirmation number (that was provided by the Pearson VUE representative at the time of exam registration) at the testing site on the exam day in order to be admitted to take the exam.

**The name on the exam reservation must match the name on the ID provided. If it does not, you will not be allowed to test, and will forfeit your exam fee. Neither the Code Council nor Pearson VUE can make an exception to this policy.** If you are unable to present identification as required by the Code Council and Pearson VUE, or have questions about what will be allowed, you must call Pearson VUE at least two days prior to your scheduled exam to make other arrangements.

Examinees may bring the following items to the examination:

1. Reference(s) as listed in this Examination Information Bulletin for the applicable exam—**no other reference material will be allowed into the testing center:**
  - Bound (original bound book, three-ring binder, or stapled)
  - Notes written in ink or highlighted in code sections
  - Permanently attached tabs (tabs that can't be removed without destroying the page)
  - Pencil notes in your references that are highlighted prior to arrival at the test center
  - **Photocopies of copyrighted materials are not allowed**
2. Magnifying glass
3. Eyeglasses, if necessary
4. Architects' scale or rule
5. Battery-operated calculator:
  - Nonprogrammable
  - Not capable of storing examination information
  - No ribbon or paper printing capabilities
6. Foreign language/English translation dictionaries, if needed

## What should I leave at home?

1. Any kind of ink (ballpoint, felt-tip, gel, etc.) pens, pencils, highlighters, writing paper, or briefcases
2. Personal items such as purses, wallets, or watches—lockers are available at Pearson VUE for small items, but will not accommodate laptops, briefcases, or large purses or bags
3. Calculators with print capability and/or that store formulas
4. Copying, recording, or photo devices
5. any electronic, electrical, or battery-operated device

## What are test proctors and what do they do?

The test proctors have two main jobs: they give the examinations and make sure the exam materials at the test site are protected. Proctors are well-trained and treat candidates with respect, and in turn,

expect the same level of respect from candidates. Threatening a proctor or interfering with the administration of an examination at *any* time may be considered a criminal offense and punishable by law. In addition, proctors cannot discuss contents of the exam or reference materials with a candidate.

Proctors have the right to remove a candidate's test and ask the individual to leave the building if the candidate:

- Gives or receives help during the examination
- Attempts to remove exam materials or notes from the room
- Creates a disturbance
- Copies or attempts to copy examination questions or answers
- Is found to have prohibited materials (cell phone, recorder, etc.) during the exam

If a candidate is asked to leave the test site for any reason, the candidate will not receive a refund, may jeopardize their right to take a Code Council examination in the future, and may face possible prosecution.

### **What does the Code Council expect of me?**

Please arrive at the exam site on the proper date, at the proper time, and with proper identification. Determine in advance the exact location of the test site, how to get there, and how much time it will take you to get to the site. Examinations will be given only on the date and time scheduled.

Please arrive at the test site with required reference(s), if desired, for use during the exam. Required examination references are listed with the examination outlines found in this bulletin. References for examinations are not supplied by the Code Council or the testing center.

**Examinees must know, understand, and adhere to all of the regulations governing Code Council examinations as listed in this bulletin.**

Arrive at the exam site at least **30 minutes** before the examination is scheduled to begin. Remember, it is your responsibility to already be familiar with the regulations governing Code Council examinations.

## What can I expect at the test site?

The proctor will check your identification, have you sign in, and may assign you a seat. The examination proctor will explain the procedures for taking the examination; answer questions related to taking the exam and provide notification to begin the examination.

### Before the Exam

Metal detectors may be randomly used to search examinees entering and/or leaving the exam room. You will be asked to empty all of your pockets and place personal items in a locker. Proctors may inspect all materials an examinee carries into and from the exam room. If your reference materials do not meet test site regulations (relating to tabs, pencil notes, etc.), **you will not be allowed to take these references into the exam room.** You will still be allowed to test, but without these materials.

The Code Council randomly videotapes examination sessions.

You are not allowed to write or mark in or on your reference books during the examination.

While the examination is being administered, you are not allowed to leave the building and return to the exam room. If you wish to leave the exam room for any reason, you must receive permission from the proctor and turn in all of your examination materials and references to the proctor. Only one examinee at a time is allowed outside the exam room, and you are not allowed additional test time for time spent outside the exam room.

### During the Exam

You are not allowed to communicate, verbally or nonverbally, with other candidates during the examination, and you may not share references.

It is **highly recommended** that if you are taking a computer-based exam, especially for the first time, you complete the tutorial available to you at the beginning of your exam. The time spent on the tutorial does not count against your exam time. You will receive important information about how to keep track of your time remaining, how to mark items for review, where to find the number of the question you are on, and more.

For computer-based examinations, there is an optional clock on the computer that counts down to display the time remaining. (Information on turning on the clock is available in the tutorial prior to the exam.) When the time limit is up for the examination, the computer will end the test.

### After the Exam

If you pass your examination, you cannot retake the examination you passed. If you do not pass your examination and wish to comment on your experience, please see the section of this bulletin titled "Feedback and Appeals Process."

# Computer-based Testing

## How do I register for a computer-based exam?

Some licensing agencies may require you to apply through them prior to testing with ICC, while others may not. You should check with the licensing agency for licensing requirements prior to registering for an examination.

Computer-based certification examinations are administered for the Code Council by Pearson VUE (formerly Promissor), a professional test administration company. **To register to take a Code Council computer-based Contractor/Trades exam, call Pearson VUE at 1-877-234-6082, or visit Pearson VUE's website at [www.pearsonvue.com/icc](http://www.pearsonvue.com/icc). You must provide the EXAM ID and EXAM TITLE, whether registering online or by telephone.**

Online reservations are available 24 hours a day, 7 days a week. The Code Council encourages candidates to register online, for your convenience. You must provide an email address to schedule an exam online, and Pearson VUE will email you a confirmation letter containing the date and time of your exam, along with test day instructions. **It is your responsibility to check this confirmation letter to ensure the exam listed is the one you wish to take.**

Pearson VUE's customer care reservations and customer service lines are open Monday through Friday from 8:00 a.m. to 11:00 p.m. (Eastern Time), Saturday from 8:00 a.m. to 5:00 p.m., and Sunday from 10:00 a.m. to 4:00 p.m. When you call to make your examination reservation, a representative will help you select the optimal test date and location for your schedule, provide instructions and directions, and give your examination reporting time. Walk-in testing is not available.

You may make an exam reservation up to one business day prior to your desired exam date, depending on space availability at the test center.

**You must have the following information available at the time you are registering for a Code Council computer-based examination:**

1. Exam ID and title. Exam IDs and titles can be found in this bulletin
2. Your full name, address, and home and work telephone numbers
3. Jurisdiction/state in which you wish to be licensed
4. Selected examination date and location of the area you desire to take the exam
5. Your credit card or payment information

## Where are test sites available?

To locate test sites in your area, visit the Pearson VUE website at [www.pearsonvue.com/icc](http://www.pearsonvue.com/icc) for an updated listing of sites. Be aware that test sites are subject to change.

## How do I pay for my exam?

Examination fees must be paid by credit card, debit card (issued through VISA or MasterCard) or electronic check at the time a reservation is made, NOT at the test center. Candidates who do not have or do not wish to use a credit card, debit card, or personal checking account may choose to prepay their

examination fees using a voucher. Vouchers can be purchased online at [www.pearsonvue.com/vouchers/pricelist/iccllicense.asp](http://www.pearsonvue.com/vouchers/pricelist/iccllicense.asp) by credit card, either singly or in volume. To redeem a voucher as payment when scheduling a test, simply indicate “voucher” as the payment method and provide the voucher number. **All vouchers are pre-paid, non-refundable, and non-returnable.** Vouchers expire twelve (12) months from the date they are issued, and voucher expiration dates cannot be extended. The exam must be taken by the expiration date printed on the voucher.

### Do I need to be a computer whiz?

Examinations are administered on a personal computer (PC). Candidates are not required to have any computer knowledge to take the examination on the PC. Before you begin your test, you may take up to 15 minutes to practice with the sample questions. Timing of the examination does not begin until you look at the first question of the actual examination. You will be allowed to change your answers, mark answers for review, go back to skipped questions and, time permitting, review your test.

### When are exams available?

Code Council examinations are administered nationally, Tuesday through Saturday (exceptions noted below). Testing sessions are generally held at 8:00 a.m. and 1:00 p.m. Some test centers are open daily, while others are open on specific days of the week. In some locations, exams are administered on a monthly basis. Pearson VUE offices are closed in observance of the following holidays:

- New Year’s Day
- Martin Luther King, Jr. Day
- Memorial Day
- Independence Day
- Labor Day
- Veteran’s Day
- Thanksgiving (including Friday following holiday)
- Christmas day

### What if the weather’s bad?

Test administrations will be delayed or canceled only in emergencies. If severe weather or a natural disaster makes the test center inaccessible or unsafe, the test administration may be canceled. Call Pearson VUE at 1-800-274-2615 to check weather or other emergency delays.

### What if I need to cancel or reschedule an exam?

To change or cancel your reservation without monetary penalty, you must notify Pearson VUE two business days before your scheduled examination. When this is done, the fee from your first appointment will be applied to your new test date. If you call Pearson VUE less than two business days before your scheduled examination, you will be charged the full examination fee. The fee from your first appointment will be owed in addition to the fee for the new test date.

### What if I can’t make it to my exam?

There are no refunds for examinations not taken. All candidates seeking excused absences must submit written verification and supporting documentation of the situation to Pearson VUE within 14 days of the original examination date. Illness excuses must be written by the attending physician. Inclement weather is not acceptable as an excused absence. If, on the day you are scheduled to test, you are

unable to attend the examination for which you were scheduled, you may be excused without monetary penalty for the following reasons:

1. Documented illness, either yourself or immediate family member;
2. Death in the immediate family;
3. Disabling traffic accident;
4. Court appearance or jury duty; or
5. Military duty.

Written verification and supporting documentation for excused absences must be submitted to the Pearson VUE Program Coordinator via fax or mail within fourteen (14) days of the original examination date.

Pearson VUE  
c/o Candidate Services  
P.O. Box 8588  
Philadelphia, PA 19101  
Fax: 888-204-6291

If you are absent from an examination that you were scheduled to attend, and you did not reschedule or cancel according to the policy, you will owe Pearson VUE the full examination fee for that missed examination.

### **When do I get my results?**

After completing the test, candidates will raise their hands and the assessment center manager will retrieve the unit for immediate scoring. Failing candidates will be provided with diagnostic information on their performance on major content areas of each examination taken. This information is not used to determine whether a candidate passes or fails; it is for self-evaluation only. Candidates who pass will be notified with the word "PASS." No numerical score is provided to passing candidates. Your score report will include an ICC ID number which participating jurisdictions can use to verify your passing status on the ICC website.

### **What if I have special needs?**

Pearson VUE certifies that it shall comply with the provisions of the Americans with Disabilities Act (ADA). If you need special arrangements for testing, please call 1-800-466-0450 to request special testing services. This telephone number is available for reservations Monday through Friday, 7:00 a.m. to 6:00 p.m. CST. All examination sites have access for candidates with disabilities.

Pearson VUE will provide auxiliary aids and services, except where it may fundamentally alter the examination or results. It is recommended that you submit a written request for special test arrangements and services approximately two to three weeks in advance of your desired test date. In addition, candidates should indicate when registering for re-examination that special arrangements were made or services used for the prior test administration, and that these services will be needed again for the upcoming test date. Supporting documentation can be faxed to 610-617-9397.

Pearson VUE is equipped with TDD (Telecommunications Devices for the Deaf) to assist deaf and hearing-impaired candidates. TDD calling is available during standard business hours through a spe-

cial Pearson VUE toll-free number, 1-800-274-2617. This phone number is for express use by candidates with compatible TDD equipment.

Pearson VUE will determine the time and place of specially arranged examinations and confirm these arrangements with the candidate directly. In some cases, there may be an additional fee for special arrangements.

In the event that an examination is offered only on Saturdays, candidates who cannot take the examination for religious reasons may request a non-Saturday test administration. Such a request must be put in writing on official stationery by your religious advisor and sent via fax machine, or mailed to Pearson VUE. Non-Saturday testing for this circumstance is done only on a prearranged basis.



## Proctored Online Testing Option (PRONTO)



### Proctored Remote Online Testing Option (PRONTO)

You can take your exam at your convenience on your home or office computer through a cloud-based testing system called PRONTO, offering secured online proctored exams. You will need a webcam and computer with working audio capability.

For more information on PRONTO, go to [www.iccsafe.org/meetPRONTO](http://www.iccsafe.org/meetPRONTO).

### PRONTO Quick Links:

**PRONTO Exam Administration:** Please visit [www.iccsafe.org/pronto-administration](http://www.iccsafe.org/pronto-administration) for more information on PRONTO Exam Administration such as:

- How to Register for a PRONTO Exam
- What to Expect at Your PRONTO Exam / Requirements
- Items Allowed/Prohibited During the Exam
- Tips and Tricks for your PRONTO Exam
- ICC Administrative Rules and Procedures

**PRONTO System Requirements:** Please visit <https://pronto.iccsafe.org/support> to run a full system diagnostic test through the link provided.

**Purchase and Take a PRONTO Exam:** <https://pronto.iccsafe.org/>

### What if I have special needs?

Please visit [www.iccsafe.org/testing-accommodations](http://www.iccsafe.org/testing-accommodations) to learn more on the process for Testing Accommodations and to download the ADA Accommodation Request Form.

# Denver, Colorado Contractor/Trades Examinations

## Building Examination Outlines

### F11 National Standard General Building Contractor (A)

90 multiple-choice questions  
Exam fee: \$115 (CBT)  
Open book—4-hour time limit

Content Area	% of Total	Reference
Administration	8%	2015 <i>International Building Code</i> ®
Building Planning	6%	2009, 2012 or 2015 <i>ICC Concrete Manual</i>
Plan Reading	13%	
Life Safety	13%	
Roof Assemblies and Rooftop Structures	13%	
Soils and Foundations	11%	
Concrete	4%	
Masonry	9%	
Steel	4%	
Wood	13%	
Gypsum Board and Plaster	2%	
Special Construction	2%	
Energy Efficiency	2%	
<b>Total</b>	<b>100%</b>	

### F12 National Standard Building Contractor (B)

80 multiple-choice questions  
Exam fee: \$115 (CBT)  
Open book—4-hour time limit

Content Area	% of Total	Reference
Administration	6%	2015 <i>International Building Code</i> ®
Building Planning	5%	2015 <i>International Residential Code</i> ®
Plan Reading	13%	2009, 2012, or 2015 <i>ICC Concrete Manual</i>
Life Safety	9%	
Exterior Walls	3%	
Roof Assemblies and Rooftop Structures	8%	
Soils and Foundations	10%	
Concrete	5%	
Masonry	11%	
Steel	6%	
Wood	18%	
Glass and Glazing	1%	
Gypsum Board and Plaster	3%	
Special Construction	1%	
Energy Efficiency	1%	
<b>Total</b>	<b>100%</b>	

## Building Examination Outlines (continued)

### F13 National Standard Residential Building Contractor (C)

80 multiple-choice questions  
Exam fee: \$115 (CBT)  
Open book—4-hour time limit

Content Area	% of Total	Reference
Administration	9%	2015 <i>International Residential Code</i> ®
Building Planning	10%	2009, 2012, or 2015 <i>ICC Concrete Manual</i>
Plan Reading	13%	
Life Safety	5%	
Exterior Walls	3%	
Roof Assemblies and Rooftop Structures	8%	
Soils and Foundations	10%	
Concrete	3%	
Masonry	8%	
Wood	22%	
Glass and Glazing	3%	
Gypsum Board and Plaster	3%	
Energy Efficiency	3%	
<b>Total</b>	<b>100%</b>	

### 491 Colorado (Denver) Demolition Class A

50 multiple-choice questions  
Exam fee: \$115 (CBT)  
Open book—2-hour time limit

Content Area	% of Total	Approved References
Job Assessment	24%	2015 <i>International Building Code</i> ®
Site Preparation	10%	<i>Denver Building Code, Amendments and Policies (DBC 2016)</i> , Chapter 1
Demolition	26%	<i>Denver Building Code, Amendments and Policies (DBC 2016)</i> , Licensing,
Safety	40%	Certification, Registration, Permits, Plans, Inspection, and
<b>Total</b>	<b>100%</b>	Certificate of Occupancy
		<i>Denver Building Code, Amendments and Policies (DBC 2016)</i> , Chapter 33,
		Sitework, Demolition, and Construction
		<i>Denver Building Code, Amendments and Policies (DBC 2016)</i> , Denver
		Building Permit Policy, IBC Amended 3303
		OSHA 29 CFR 1904, Recording and Reporting Occupational Injuries and
		Illnesses
		OSHA 29 CFR 1910, Occupational Safety and Health Standards
		OSHA 29 CFR 1926, Safety and Health Regulations for Construction

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Outlines are subject to change.

## Building Examination Outlines (continued)

492 Colorado (Denver) Demolition Class B

30 multiple-choice questions  
Exam fee: \$110 (CBT)  
Open book—1-1/2-hour time limit

Content Area	% of Total	Approved References
Job Assessment	46%	2015 <i>International Building Code</i> ®
Site Preparation	4%	<i>Denver Building Code, Amendments and Policies (DBC 2016), Chapter 1</i>
Demolition	15%	<i>Denver Building Code, Amendments and Policies (DBC 2016), Licensing,</i>
Safety	35%	Certification, Registration, Permits, Plans, Inspection, and
<b>Total</b>	<b>100%</b>	Certificate of Occupancy <i>Denver Building Code, Amendments and Policies (DBC 2016), Chapter 33,</i> Sitework, Demolition, and Construction <i>Denver Building Code, Amendments and Policies (DBC 2016), Denver</i> Building Permit Policy, IBC Amended 3303 OSHA 29 CFR 1904, Recording and Reporting Occupational Injuries and Illnesses OSHA 29 CFR 1910, Occupational Safety and Health Standards OSHA 29 CFR 1926, Safety and Health Regulations for Construction

## Fire Protection Examination Outline

F35 National Standard Fire Suppression Installer/Worker

60 multiple-choice questions  
Exam fee: \$115 (CBT)  
Open book—2-hour time limit

Content Area	% of Total	Reference
Inspection	15%	2015 <i>International Fire Code</i> ®
Emergency Impairment	5%	2015 <i>International Building Code</i> ®
Piping Systems	20%	2010 NFPA 13D
Water Supply	10%	2013 NFPA 13, 30
Fire Pumps	10%	2014 NFPA 14, 20, 25
Special Systems	20%	
Accepting Systems	20%	
<b>Total</b>	<b>100%</b>	

## Electrical Examination Outlines



**PLEASE NOTE:** The Colorado (Denver) Moving Supervisor Electrical Examinations is available through PRONTO (Proctored Remote Online Testing Option).

**You must request to take this exam 4-6 weeks in advance.**

Please contact the Assessment Center at [askac@iccsafe.org](mailto:askac@iccsafe.org) to request this exam.

### **What is PRONTO?**

PRONTO is an industry-leading, secure exam delivery service. Plan your exam for the day and time most convenient for you—PRONTO is available 24/7—and know your results immediately upon exam completion. All PRONTO exams feature advanced exam security features so you can be confident in the integrity of the testing process and exam results. To learn more about PRONTO Exam Administration, please go to <https://www.iccsafe.org/meetpronto>.

### **493 Colorado (Denver) Moving Supervisor**

30 multiple-choice questions

**\*\*Only available via limited PRONTO (Proctored Remote Online Testing Option)\*\***

Exam fee: \$115 (PRONTO)

**You must request to take this exam 4-6 weeks in advance**

Open book—1-1/2-hour time limit

Content Area	% of Total	Approved References
Job Assessment	46%	2015 <i>International Building Code</i> ®
Site Preparation	4%	<i>Denver Building Code, Amendments and Policies (DBC 2016), Chapter 1</i>
Demolition	15%	<i>Denver Building Code, Amendments and Policies (DBC 2016), Licensing,</i>
Safety	35%	Certification, Registration, Permits, Plans, Inspection, and
<b>Total</b>	<b>100%</b>	Certificate of Occupancy
		<i>Denver Building Code, Amendments and Policies (DBC 2016), Chapter 33,</i>
		Sitework, Demolition, and Construction
		<i>Denver Building Code, Amendments and Policies (DBC 2016), Denver</i>
		Building Permit Policy, IBC Amended 3303
		OSHA 29 CFR 1904, Recording and Reporting Occupational Injuries and
		Illnesses
		OSHA 29 CFR 1910, Occupational Safety and Health Standards
		OSHA 29 CFR 1926, Safety and Health Regulations for Construction

### **380 Colorado (Denver) Journeyman Electrical Signal**

40 multiple-choice questions

Exam fee: \$115 (PRONTO)

Open book—3-hour time

Content Area	% of Total	Approved References
Fire Alarm Application and Design	5%	2015 <i>International Building Code</i> ®
Fire Alarm Installation	35%	2014 <i>National Electrical Code</i>
General Low-voltage Wiring	40%	2016 NFPA 72
Emergency Voice Alarm Communications	5%	
Monitoring	5%	
Fire Alarm Testing	10%	
<b>Total</b>	<b>100%</b>	

## Electrical Examination Outlines (continued)

### 494 Colorado (Denver) Electrical Sign Supervisor

50 multiple-choice questions  
Exam fee: \$115 (CBT)  
Open book—2-hour time limit

Content Area	% of Total	Approved References
General Knowledge	19%	2015 <i>International Building Code</i> ®
Services and Service Equipment	16%	2014 <i>National Electrical Code</i>
Feeders	4%	<i>Denver Building and Sign Code and Amendments (DBC 2016)</i> — Chapter 1—Title, Purpose, and Scope — Licensing, Certification, Registration, Permits, Plans, Inspection, and Certificate of Occupancy — Chapter 2—Definition and Abbreviations — Appendix H—Signs
Branch Circuits and Conductors	14%	
Wiring Methods and Materials	5%	
Equipment and Devices	10%	
Control Devices	7%	
Motors and Generators	10%	
Special Occupancies, Equipment, and Conditions	5%	
Plan Reading and Analysis	10%	
<b>Total</b>	<b>100%</b>	

### F22 National Standard Master Sign Electrician

60 multiple-choice questions  
Exam fee: \$115 (CBT)  
Open book—3-hour time limit

Content Area	% of Total	Reference
Basic Electricity	18%	2014 <i>National Electrical Code</i>
Electrical Materials and Installation	22%	<i>American Electricians' Handbook</i>
Power Source	8%	<b>OR</b> <i>Ugly's Electrical References (any edition)</i>
Conductors and Branch Circuits	18%	
Services	7%	
Electrical Signs	27%	
<b>Total</b>	<b>100%</b>	

### 377 Colorado (Denver) Electrical Signal Supervisor

40 multiple-choice questions  
Exam fee: \$115 (CBT)  
Open book—2-hour time limit

Content Area	% of Total	Approved References
Fire Alarm Application and Design	20%	2015 <i>International Building Code</i> ®
Fire Alarm Installation	30%	2014 <i>National Electrical Code</i>
General Low-voltage Wiring	30%	2013 NFPA 72
Emergency Voice Alarm Communications	5%	
Monitoring	5%	
Fire Alarm Testing	10%	
<b>Total</b>	<b>100%</b>	

**490 Colorado (Denver) Access Control Supervisor**

60 multiple-choice questions  
 Exam fee: \$115 (CBT)  
 Open book—2-hour time limit

Content Area	% of Total	Approved References
Design, Layout, and Planning	30%	2015 <i>International Building Code</i> ®
Doors, Gates, and Turnstile Assemblies	10%	2014 <i>National Electrical Code</i>
Wiring	20%	2016 <i>Denver Building Code</i> , Appendix Q. Access Control
Electronic Access Control	30%	
Interfaces	10%	
<b>Total</b>	<b>100%</b>	

**Mechanical Examination Outlines****F29 National Standard Master Mechanical**

100 multiple-choice questions  
 Exam fee: \$115 (CBT)  
 Open book—4-hour time limit

Content Area	% of Total	Reference
General Requirements	33%	2015 <i>International Mechanical Code</i> ®
Appliances and Equipment	10%	2015 <i>International Fuel Gas Code</i> ®
Exhaust and Ventilation Systems	8%	2014 <i>National Electrical Code</i>
Duct Systems	12%	
Combustion Air	8%	
Chimneys and Vents	7%	
Fuel Supply Systems	7%	
Special Requirements	4%	
Electrical	9%	
Water	2%	
<b>Total</b>	<b>100%</b>	

**F31 National Standard Journeyman Mechanical**

50 multiple-choice questions  
 Exam fee: \$115 (CBT)  
 Open book—3-hour time limit

Content Area	% of Total	Reference
General Requirements	46%	2015 <i>International Mechanical Code</i> ®
Appliances and Equipment	14%	2015 <i>International Fuel Gas Code</i> ®
Exhaust and Ventilation Systems	2%	2014 <i>National Electrical Code</i>
Duct Systems	14%	
Combustion Air	6%	
Chimneys and Vents	6%	
Fuel Supply Systems	2%	
Special Requirements	6%	
Electrical	4%	
<b>Total</b>	<b>100%</b>	

## Mechanical Examination Outlines (continued)

### F32 National Standard Residential Mechanical—Class C

70 multiple-choice questions  
Exam fee: \$115 (CBT)  
Open book—3-hour time limit

Content Area	% of Total	Reference
General Requirements	32%	2015 <i>International Residential Code</i> ®
Appliances and Equipment	6%	
Duct Systems	15%	
Combustion Air	23%	
Chimneys and Vents	10%	
Fuel Supply Systems	14%	
<b>Total</b>	<b>100%</b>	

### 227 Colorado (Denver) Stationary Engineer

60 multiple-choice questions  
Exam fee: \$115 (CBT)  
Open book—3-hour time limit

Content Area	% of Total	Approved References
Water Supply Treatment and Feed Systems	7%	2015 <i>International Mechanical Code</i> ®
Fuels and Firing Methods	20%	2015 <i>International Fuel Gas Code</i> ®
General Code Application and Venting	10%	<i>Boiler Operator's Guide</i> , 4th Edition
Startup and Shutdown Operations	5%	<i>Steam Plant Operation</i> , 8th Edition
Piping, Pumps, and Valving	10%	
Controls and Control Systems	20%	
Maintenance and Repairs	20%	
Tests and Inspections	8%	
<b>Total</b>	<b>100%</b>	

### 228 Colorado (Denver) Refrigeration Operator

50 multiple-choice questions  
Exam fee: \$115 (CBT)  
Open book—2-1/2-hour time limit

Content Area	% of Total	Approved References
Theory, Terminology, and General Requirements	18%	2015 <i>International Mechanical Code</i> ®
Compressors and Types of Systems	10%	2014 <i>National Electrical Code</i>
Evaporators, Condensers, and Cooling Towers	10%	<i>Modern Refrigeration and Air Conditioning</i> , 18th Edition
Piping Inspection and Field Testing	8%	
Air Ducts and Insulation	6%	
Electrical and Controls	22%	
Refrigerants	12%	
Operation Procedures	6%	
Maintenance and Repairs	8%	
<b>Total</b>	<b>100%</b>	



## Mechanical Examination Outlines (continued)

### F33 National Standard Master Gas Pipe Fitter

75 multiple-choice questions  
Exam fee: \$115 (CBT)  
Open book—3-hour time limit

Content Area	% of Total	Reference
General Requirements	39%	2015 <i>International Fuel Gas Code</i> ®
Appliances and Equipment	13%	
Fuel Supply Systems	17%	
Combustion Air	12%	
Chimneys and Vents	13%	
Special Requirements	6%	
<b>Total</b>	<b>100%</b>	

### F34 National Standard Journeyman Gas Pipe Fitter

50 multiple-choice questions  
Exam fee: \$115 (CBT)  
Open book—2-hour time limit

Content Area	% of Total	Reference
General Requirements	28%	2015 International Fuel Gas Code
Appliances and Equipment	20%	
Fuel Supply Systems	22%	
Combustion Air	10%	
Chimneys and Vents	12%	
Special Requirements	8%	
<b>Total</b>	<b>100%</b>	

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