



Philadelphia, Pennsylvania Contractor/Trades Examination Information Bulletin

PUBLISHED November 1, 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 1, 2016	Philadelphia Contractor/Trades Exams	Revised exam prices and cost of hand score and review; updated holiday closure schedule
March 28, 2017	Front cover; Philadelphia Contractor/Trades Exams	Noted that 251 exam available for review sessions only. Review sessions for this exam open until June 21, 2017.
June 30, 2017	Front cover; Philadelphia Contractor/Trades Exams	Removed notice of 251 exam review sessions; removed exam 251 from exam listings
December 28, 2017	Philadelphia 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	Philadelphia Contractor/Trades Bulletin	Updated links and table of contents throughout bulletin
February 26, 2018	Philadelphia Contractor/Trades Examinations	Corrected 314 exam content outline
March 1, 2018	Feedback and Appeals; Front Cover	Updated email and fax where applicable
September 7, 2018	Feedback and Appeals	Removed Review Session Info
November 21, 2018	Philadelphia Contractor/Trades Bulletin	Corrected links
July 1, 2019	Front Cover; Philadelphia Contractor/Trades Exams	Added information of upcoming changes, effective July 25, 2019
October 1, 2019	Philadelphia Contractor/Trades Examinations	Updated references for 200, 311, and 214 exams
October 12, 2020	Philadelphia Contractor/Trades Bulletin	Effective November 1, 2020, — the 249 and 250 exams will be based on the 2018 Philadelphia Plumbing Code

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 www.pearsonvue.com/icc or call Pearson VUE at 1-877-234-6082
- change my name or address? Visit www.iccsafe.org/ac-forms-library/ and select the accordion labeled **Candidate Services** and select the form **Change of Candidate Information 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.
Email: customersuccess@iccsafe.org
- request a duplicate pass letter? Visit www.iccsafe.org/ac-forms-library/ and select the category **General Requests** and select: **Replacement Result Letter**
- 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 17-21 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 shop.iccsafe.org; more information is found in the exam outline listings starting on page 17
- access information on my passed exams on ICC's website? Visit www.iccsafe.org/certification-contractor-verification for the Contractor Exam pass link
- become an ICC member? Visit www.iccsafe.org/membership 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/certification-exam-catalog.

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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/certification-exam-catalog 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.**

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-trades-exams.

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. 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 350 sites across the nation. Pearson VUE test dates and sites can be found on their website at 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.

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.

Are the examinations open book?

Some Contractor/Trades exams are open book, while others (including plumbing exams) are closed 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. 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, visit www.iccsafe.org/ac-forms-library and select the category General Requests and choose **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.

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.

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/.

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 Code Council 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

Test Site Regulations

The rules and procedures below are strictly enforced at all Code Council examinations. Following these rules guarantees the security of examination materials, provides reliable test results, and increases the public's trust of certified professionals.

What should I bring to the test site?

For electronic examinations, 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.

For electronic examinations, **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 ICC nor Pearson VUE can make an exception to this policy.** If you are unable to present identification as required by the ICC and Pearson VUE, or have questions about what will be allowed, you must call Pearson VUE prior to your scheduled exam to make other arrangements.

Examinees may bring the following items to the examination:

- Reference(s) for the appropriate exam that are listed in this Examination Information Bulletin—**no other reference material will be allowed into the testing center:**
Please make sure the reference(s):
 - Are bound (either original bound book, three-ring binder, or stapled). **Photocopies of copyrighted materials are not allowed.**
 - Have notes written in ink or highlighted in code sections only
 - Have permanently attached tabs (tabs that can't be removed without destroying the page).
- Magnifying glass
- Eyeglasses, if necessary
- Architects' scale or rule
- Battery-operated calculator that is:
 - Nonprogrammable
 - Not capable of storing examination information
 - No ribbon or paper printing capabilities
- Foreign language/English translation dictionaries, if needed

What should I leave at home?

1. Any kind of ink (ballpoint, felt-tip, gel, etc.) pens, colored 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 if I have problems at the examination site?

Code Council testing procedures are designed to minimize 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 will not be changed. Should you feel your exam experience or conditions at the test site to be unfavorable, notify the proctor. If you would like to file a complaint, you must ensure that an Incident Report (IR) is created by the test personnel, and then follow up using the appeals process. In order for the Code Council to investigate and respond to your complaint, an IR must be filed before you leave the test site. Once the investigation is completed, you will receive a letter of determination from the Code Council.

General comments regarding the exam experience are encouraged. Please forward your comments to appeals@iccsafe.org.

Please note all comments will be read; however, you will not receive a written response.

What does the Code Council expect of me?

Examinees are responsible for arriving at the exam site on the proper date, at the proper time, and with proper identification. You should 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 note: if you are taking a computer-based exam, your Pearson VUE confirmation letter automatically adds 30 minutes to the actual exam time (as noted in this bulletin) for you to complete the tutorial and exit surveys.

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?

Watch this short video [What to expect in a Pearson VUE test center](#)

The examination 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. The proctor will give you a whiteboard and markers for use during the exam.

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. The exam countdown clock **will not stop** during any absence from your seat.

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 electronically administered 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 except as necessary for recertification. 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. 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

Please make sure that the name you use to register for your exam exactly matches your chosen form of identification, i.e., your driver's license, if that is the identification you will use when you take the exam. You will not be allowed to take the exam if your exam registration and identification do not match.

Where are the test sites?

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

How do I pay for the 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/icccert.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 have 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 the 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.

How do I cancel or reschedule my 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 test 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 special 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.

Philadelphia Contractor/Trades Examinations

Please visit www.iccsafe.org/contractor for the most up-to-date information. Outlines are subject to change.

211 Pennsylvania (Philadelphia) Standard Master Electrician

100 multiple-choice questions
Exam fee: \$115 (CBT)
Open book—5-hour time limit

Content Area	% of Total	Approved References
General Knowledge and Plan Reading	12%	2017 <i>National Electrical Code</i>
Services and Service Equipment	16%	<i>Ugly's Electrical Reference (any edition)</i>
Feeders	4%	
Branch Circuits and Conductors	16%	
Wiring Methods and Materials	19%	
Equipment and Devices	10%	
Control Devices	3%	
Motors and Generators	8%	
Special Occupancies, Equipment, and Conditions	12%	
Total	100%	

200 Pennsylvania (Philadelphia) Fire Suppression Installer/Worker

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

Content Area	% of Total	Approved References
Inspection (Alarms and Subsection)	15%	2018 <i>International Fire Code</i> ®
Emergency Impairment	5%	2018 <i>International Building Code</i> ®
Piping Systems (Installations)	25%	2016 NFPA 13, 13D, 13R, 14, and 20
Water Supply	10%	2017 NFPA 25
Fire Pumps	10%	
Special Systems	15%	
Accepting Systems	20%	
Total	100%	

249 Pennsylvania (Philadelphia) Master Plumber

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

Content Area	% of Total	Approved References
Plumbing Fixtures and Terminology	6%	<i>Philadelphia Plumbing Code 2018</i>
Plumbing Fundamentals and Administrative	8%	
Traps, Interceptors, and Cleanouts	10%	
Special Requirements	6%	
Drainage Requirements	15%	
Venting Requirements	15%	
Water Distribution	10%	
Plan Reading and Analysis	30%	
Total	100%	

250 Pennsylvania (Philadelphia) Journeyman Plumber

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

Content Area	% of Total	Approved References
Plumbing Fixtures and Terminology	12%	<i>Philadelphia Plumbing Code 2018</i>
Plumbing Fundamentals	13%	
Traps, Interceptors, and Cleanouts	5%	
Special Requirements	4%	
Drainage Requirements	15%	
Venting Requirements	15%	
Water Distribution	11%	
Plan Reading and Analysis	25%	
Total	100%	

214 Pennsylvania (Philadelphia) Sheet Metal Technician

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

Content Area	% of Total	Approved References
SHVAC Principles and Terminology	4%	2018 <i>International Mechanical Code</i> ®
Workman Safety	8%	2018 <i>International Fuel Gas Code</i> ®
Duct System Materials	13%	2005 SMACNA <i>HVAC Duct Construction Standards</i>
Combustion Air	4%	2006 SMACNA <i>HVAC Systems Duct Design Standards</i>
Exhaust Systems	10%	
Fresh Air and Ventilation Systems	12%	
Grease Hoods	8%	
Supply and Return Duct Systems	16%	
Appliance Venting	10%	
Testing, Adjusting, and Balancing	4%	
Plan Reading and Analysis	11%	
Total	100%	

314 Pennsylvania (Philadelphia) Engineer Grade A
Steam Boiler, Stationary, and Refrigeration Engineer

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

Content Area	% of Total	Approved References
Turbines, Design Auxiliaries, and Operations	15%	<i>Boiler Operator's Workbook</i> , ATP
Boiler Operations, Maintenance, and Safety	9%	<i>Stationary Engineering</i> , ATP
Waste to Energy Plants and Environmental/Pollution Control	8%	<i>High Pressure Boilers</i> , Harold J. Frost & Daryl R. Walker
Water Treatment	9%	<i>Steam Plant Operation</i> , McGraw Hill
Boiler Combustion and Fuels	8%	<i>Boiler Operator's Guide</i> , McGraw Hill
Boiler Accessories and Auxiliary Equipment	8%	<i>Refrigeration and Air Conditioning Technology</i>
Engineering Calculations	7%	<i>Low Pressure Boilers</i> , ATP
Electrical	7%	2008 <i>Ugly's Electrical Reference</i>
Controls—Pneumatic and Electronic	7%	<i>Electric Motor Control for Integrated Systems</i> , ATP
Pumps, Feed, Hydronic, and Condensate Systems	7%	<i>HVAC Control Systems</i> , ATP
Refrigeration, Air Conditioning, and Cooling Towers	7%	Note: With the exception of <i>Ugly's Electrical Reference</i> , any edition of the above books is acceptable.
Boiler Design and Principles	8%	
Total	100%	

311 Pennsylvania (Philadelphia) Engineer Grade B
Refrigeration Engineer

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

Content Area	% of Total	Approved References
Theory, Terminology, and General Requirements	15%	2018 <i>International Mechanical Code</i> ®
Compressors and Types of Systems	10%	2018 <i>International Fuel Gas Code</i> ®
Evaporators, Condensers, and Cooling Towers	10%	2017 <i>National Electrical Code</i>
Piping Inspection and Field Testing	10%	2000 <i>Modern Refrigeration and Air Conditioning</i>
Air Ducts and Insulation	10%	
Electrical Controls	20%	
Refrigerants	10%	
Operation Procedures	5%	
Maintenance and Repairs	10%	
Total	100%	

335 Pennsylvania (Philadelphia) Engineer Grade C
Portable and Stationary Engineer

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

Content Area	% of Total	Approved References
Boiler Operation and Safety	10%	<i>High Pressure Boilers</i> , Harold J. Frost & Daryl R. Walker
Fuel and Draft System	10%	<i>Low Pressure Boilers</i> , ATP
Steam Systems	10%	
Boiler Water Treatment	10%	
Engineering Calculations	10%	
Boiler Fittings/Accessories	10%	Note: Any edition of the above books is acceptable.
Hydronic Systems	10%	
Feedwater Systems	10%	
Controls	10%	
Boiler Design and Principles	10%	
Total	100%	

328 Pennsylvania (Philadelphia) Engineer Grade D
Fireman

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

Content Area	% of Total	Approved References
Boiler Operations	20%	<i>Low Pressure Boilers</i> , 3rd Edition, ATP
Boiler Fittings	10%	
Feedwater System	20%	
Steam System	20%	
Draft System	4%	
Boiler Water Treatment	6%	
Boiler Operation Safety	20%	
Total	100%	

467 Pennsylvania (Philadelphia) 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	20%	2009 <i>International Building Code</i>
Site Preparation	30%	Philadelphia Building Code Amendments
Demolition	20%	OSHA 29 CFR 1904
Safety	30%	OSHA 29 CFR 1926 OSHA 29 CFR 1910
Total	100%	

468 Pennsylvania (Philadelphia) Demolition Class B

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

Content Area	% of Total	Approved References
Job Assessment	20%	2009 <i>International Building Code</i>
Site Preparation	30%	Philadelphia Building Code Amendments
Demolition	20%	OSHA 29 CFR 1904
Safety	30%	OSHA 29 CFR 1926 OSHA 29 CFR 1910
Total	100%	

Demolition Class A: To demolish any building, structure, utility, or portion thereof. All work shall be performed under the supervision of the holder of a Class A Demolition Contractor License.

Demolition Class B: To demolish any building that is NOT designated as a Major Building as defined in A-1001.1 of Subcode "A" (The Philadelphia Administrative Code) of Title 4 (The Philadelphia Building and Occupancy Code) and is either more than 3 stories in height; or more than 40 feet (12,192 mm) in height, or; covers 10,000 square feet (929 square meters) or more of lot space, regardless of height. All work shall be performed under the supervision of the holder of a Class A or B Demolition Contractor License.