

**PSI licensure**  
**3210 E Tropicana**  
**Las Vegas, NV 89121**

**Boilers:** <https://test-takers.psiexams.com/dceng>  
**Plumber:** <https://test-takers.psiexams.com/dcplumber>  
**Electrician:** <https://test-takers.psiexams.com/dcelectric>  
**Refrigeration:** <https://test-takers.psiexams.com/dcrefrig>

**Email:** [DCOPLASupport@psionline.com](mailto:DCOPLASupport@psionline.com)

## **Washington D.C. Contractor/Trades**

# **Candidate Information Bulletin**

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## How do I...?

- schedule an exam?

Submit a complete application and fees:  
<https://govservices.dcradep.gov/newoplallicenses>  
Electrician Plumbing  
Refrigeration/Air Conditioning  
Steam Engineer:  
Operating Engineer

Upon approval, you will receive a notice of eligibility to take the examination. Registration for the examination can be completed at <https://test-takers.psiexams.com/dceng> or by calling (855) 557-0616.
- change my name or address?

If you are still in the process of completing your examination, you may go to [www.dcradep.gov](http://www.dcradep.gov), select Business & Licensing Registration, select "Get a Professional License" and then select the appropriate license category, e.g., electrician, plumber, etc.

Once on the appropriate page, you can select on the right 'to access online portal' and enter your username and password (what you established when you first applied on-line). On the profile in the left of your record, select edit to update your name and/or address.

If you are already licensed, you may update your name and/or address, by submitting a request through the on-line portal and providing the requirement name change document such as a marriage certificate, divorce decree or other legal document effecting the name change.
- reschedule an exam?

Please contact PSI at the website below or call (855) 557-0616.– see page 6 for deadlines

Boilers: <https://test-takers.psiexams.com/dceng>  
Plumber: <https://test-takers.psiexams.com/dcplumber>  
Electrician: <https://test-takers.psiexams.com/dcelectric>  
Refrigeration: <https://test-takers.psiexams.com/dcrefrig>
- cancel an exam?

Please contact PSI at the website below or call (855) 557-0616.– see page 6 for deadlines

Boilers: <https://test-takers.psiexams.com/dceng>  
Plumber: <https://test-takers.psiexams.com/dcplumber>  
Electrician: <https://test-takers.psiexams.com/dcelectric>  
Refrigeration: <https://test-takers.psiexams.com/dcrefrig>
- find my exam code (ID)?

See pages 8-14 for the exam outline listings in this bulletin
- know what I can take into the exam?

See page 4 for the Test Site Regulations section

## General Testing Information

The purpose of this bulletin is to provide you with information regarding how to schedule and take your contractor/trades examination. You must submit a complete application and fees in order to be deemed eligible to test. All applications and fees are required to be submitted online. You may access an application by going to the following web address:

<https://govservices.dcr.dcgov/newoplalicensess>

If you require assistance in the application process, you may speak with a Customer Service Representative at 866-270-9187 or by live chat at the websites listed above.

Upon approval of your application, you will receive an eligibility notice via email advising you that you have been approved to test. The eligibility notification will include the telephone number as well as the web address to register for your examination.

The eligibility period will be for 30 days and you will be able to test one time during that 30 day period. If you have any questions regarding your application you may speak to a Customer Service Representative at 866-270-9187 or via live chat at the website listed above.

## Administrative Rules & Procedures

### 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 PSI please contact PSI at the website below or call (855) 557-0616.

Boilers: <https://test-takers.psiexams.com/dceng>  
Plumber: <https://test-takers.psiexams.com/dcplumber>  
Electrician: <https://test-takers.psiexams.com/dcelectric>  
Refrigeration: <https://test-takers.psiexams.com/dcrefrig>

Pre-payment is required to schedule an examination.

### When can I test?

Computer-testing is administered frequently at the following address:

District of Columbia  
Department of Consumer and Regulatory Affairs  
1100 4th Street SW  
Suite E 500  
Washington, D.C. 20024

### How often can I test?

You must wait 3 months before retaking a failed 2nd Class or 6th Class Stationary Boilers exam, and 6 months before retaking a failed 3rd Class Stationary Boilers exam. For any of the Washington D.C. exams, you must reapply with the Department of Consumer and Regulatory Affairs before each time you wish to retest. It is strongly recommended that you allow time to study the approved references before registering to test a second time.

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

Contact the licensing agency or review the Information Bulletin on the PSI's website at <https://test-takers.psiexams.com/dceng>.

## Feedback & Appeals Process

Please contact PSI at (855) 557-0616.

## Test Site Regulations

### What should I bring to the test site?

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. PSI cannot make an exception to this policy.** If you are unable to present identification as required by PSI, or have questions about what will be allowed, you must call PSI 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 Candidate 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 PSI 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. Cell phones, beepers, radios, MP3 players, and/or PDAs

### What if I have problems at the examination site?

Please contact PSI at (855) 557-0616.

## WHAT TO EXPECT AT THE TEST SITE

### BEFORE THE EXAM

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

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 or in a red bag that will be locked with a key held by the Test Administrator and secured to the back your testing chair. Test administrators 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.

### DURING THE EXAM

The test administrator will provide you with scratchboard and a pencil for use during the examination. The scratch paper and pencil must be submitted to the test center administrator at the end of the examination. If you need more scratch paper, you may request it from the test center administrator; you will be required to submit the original scratch paper before additional scratch paper will be given to you.

You are not allowed to write or mark in or on your reference books during the examination. The test administrator 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 test administrator and turn in all of your examination materials and references to the test administrator and sign out (**NOTE: You are permitted only 5 minutes for a restroom break**). 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.

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 a clock on the computer that counts down the time remaining. When time has expired, the examination will automatically be ended.

### **AFTER THE EXAM**

Your score will be given to you immediately following completion of the examination. If you do not pass your examination and wish to comment on your experience, please contact PSI at (855) 557-0616.

## **Computer-based Testing**

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

The DC examinations are administered by PSI, a professional test administration company. To register please contact PSI at the website below or call (855) 557-0616.

Boilers: <https://test-takers.psiexams.com/dceng>  
Plumber: <https://test-takers.psiexams.com/dcplumber>  
Electrician: <https://test-takers.psiexams.com/dcelectric>  
Refrigeration: <https://test-takers.psiexams.com/dcrefrig>

**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. You must provide an email address to schedule an exam online, and PSI 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.**

PSI's customer care reservations and customer service line are open Monday-Friday 7:30 a.m. -10 p.m. ET and Saturday/Sunday 9:00 a.m.-5:00 p.m. ET. 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 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 the 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.

## How do I pay for my exam?

Examination fees must be paid by credit/debit card (Visa, MasterCard, American Express or Discover) at the time the reservation is made, NOT at the test center. Candidates who do not have or wish to use a credit/debit card may choose to prepay their examination fees by submitting a cashier's check or money order to:

**PSI Services LLC/DCOPLA Program**  
**3210 East Tropicana**  
**Las Vegas, NV 89121**

## 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 exams available?

The 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. PSI offices are closed in observance of the following holidays:

New Year's Day  
Martin Luther King, Jr. Day  
Memorial Day  
Independence Day  
Labor Day  
Thanksgiving  
Day after Thanksgiving  
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. Go to PSI's website, <https://test-takers.psiexams.com/dceng>, where there is a running ticker of test site closures. If PSI closes a test site due to a weather emergency, every attempt will be made to reach the Candidate and cancel or reschedule the examination. You may also call, (855) 557-0616 for assistance.

## How do I cancel or reschedule my exam?

To change or cancel your reservation without monetary penalty, you must notify PSI two 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 PSI less than two 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 test?

There are no refunds for examinations not taken. All candidates seeking excused absences must submit written verification and supporting documentation of the situation to PSI. Illness excuses must be written by the attending physician. 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;
5. Military duty; or
6. Inclement weather that prevented you from getting to the test site.

Written verification and supporting documentation for excused absence must be submitted to PSI via fax or mail.

PSI Services LLC/DCOPLA Program 3210  
East Tropicana  
Las Vegas, NV 89121  
Email: DCOPLASupport@psionline.com

If you are absent from an examination that you were scheduled to attend, and you did not reschedule or cancel according to policy, you will be required to submit a re-examination application along with the appropriate application and 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.

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

PSI certifies that it shall comply with the provisions of the Americans with Disabilities Act (ADA). Applicants with disabilities or those who would otherwise have difficulty taking the examination should request for alternative arrangements by [Clicking Here](#).

All examination sites have access for candidates with disabilities.

PSI 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.

PSI 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 PSI toll-free number, 800-735-2929. This phone number is for express use by candidates with compatible TDD equipment.

PSI will determine the time and place of specially arranged examinations and confirm these arrangements with the candidate directly.

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 Email: [DCOPLASupport@psionline.com](mailto:DCOPLASupport@psionline.com). Non-Saturday testing for this circumstance is done only on a prearranged basis.

# Washington D.C. Contractor/Trades Examinations

## 220 Washington DC Master Electrician

100 multiple-choice questions  
Exam fee: \$52 (CBT)  
Open book—5-hour time limit

Content Area	% of Total	Approved References
General Knowledge and Plan Reading	12%	2011 <i>National Electrical Code</i>
Services and Service Equipment	16%	<i>Ugly's Electrical References</i> (any edition)
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%	
<b>Total</b>	<b>100%</b>	

## 307 Washington DC Journeyman Electrician

80 multiple-choice questions  
Exam fee: \$52 (CBT)  
Open book—4-hour time limit

Content Area	% of Total	Approved References
General Knowledge	6%	2011 <i>National Electrical Code</i>
Services and Service Equipment	11%	<i>Ugly's Electrical Reference</i>
Feeders	4%	
Branch Circuits and Conductors	19%	
Wiring Methods and Materials	26%	
Equipment and Devices	13%	
Control Devices	4%	
Motors and Generators	6%	
Special Occupancies, Equipment, and Conditions	11%	
<b>Total</b>	<b>100%</b>	

## 824 Washington DC Residential Maintenance Electrician

60 multiple-choice questions  
Exam fee: \$52 (CBT)  
Open book—3-hour time limit

Content Area	% of Total	Approved References
General Knowledge	12%	2011 <i>National Electrical Code</i>
Services and Service Equipment	22%	<i>Ugly's Electrical Reference</i>
Feeders	10%	
Branch Circuits and Conductors	26%	
Wiring Methods and Materials	15%	
Equipment and Devices	8%	
Special Occupancies, Equipment, and Conditions	7%	
<b>Total</b>	<b>100%</b>	

**338 Washington DC Journeyman Sign Electrician**40 multiple-choice questions  
Exam fee: \$52 (CBT)  
Open book—2-hour time limit

Content Area	% of Total	Approved References
Basic Electricity and Wiring	23%	2011 <i>National Electrical Code</i>
Electrical Materials and Installation	20%	<i>Ugly's Electrical Reference</i>
Power Source, Transformers, and Motors	5%	
Conductors, Branch Circuits, and Feeders	22%	
Electrical Signs and Outdoor Lighting	30%	
<b>Total</b>	<b>100%</b>	

**309 Washington DC Low-voltage Electrician**50 multiple-choice questions  
Exam fee: \$52 (CBT)  
Open book—3-hour time limit

Content Area	% of Total	Approved References
General Knowledge	24%	2011 <i>National Electrical Code</i>
Low-voltage Remote Control and Alarm Systems	22%	<i>Ugly's Electrical Reference</i>
Low-voltage Communications and Sound Systems	36%	
Low-voltage Control Circuits	14%	
Fiber Optical Cables and Raceways	4%	
<b>Total</b>	<b>100%</b>	

**303 Washington DC Master Plumber**100 multiple-choice questions  
Exam fee: \$52 (CBT)  
Open book—4-hour time limit

Content Area	% of Total	Approved References
Plumbing Fixtures and Terminology	7%	2012 <i>International Plumbing Code</i> ®
Plumbing Fundamentals	13%	
Traps, Cleanouts, and Interceptors	7%	
Special Requirements	3%	
Drainage Requirements	19%	
Vent Requirements	17%	
Water Distribution	11%	
Plan and Analysis	23%	
<b>Total</b>	<b>100%</b>	

**302 Washington DC Journeyman Plumber**70 multiple-choice questions  
Exam fee: \$52 (CBT)  
Open book—3-hour time limit

<b>Content Area</b>	<b>% of Total</b>	<b>Approved References</b>
Plumbing Fixtures and Terminology	6%	2012 <i>International Plumbing Code</i> ®
Plumbing Fundamentals	14%	
Traps, Cleanouts, and Interceptors	6%	
Special Requirements	4%	
Drainage Requirements	16%	
Vent Requirements	16%	
Water Distribution	11%	
Plan Reading	27%	
<b>Total</b>	<b>100%</b>	

**304 Washington DC Master Plumber with Gas**100 multiple-choice questions  
Exam fee: \$52 (CBT)  
Open book—4-hour time limit

<b>Content Area</b>	<b>% of Total</b>	<b>Approved References</b>
Plumbing Fixtures and Terminology	7%	2012 <i>International Plumbing Code</i> ®
Plumbing Fundamentals	13%	2012 <i>International Fuel Gas Code</i> ®
Traps, Cleanouts, and Interceptors	7%	
Special Requirements	6%	
Drainage Requirements	8%	
Vent Requirements	9%	
Water Distribution	7%	
Plan and Analysis	23%	
Gas	20%	
<b>Total</b>	<b>100%</b>	

**310 Washington DC Journeyman Plumber with Gas**70 multiple-choice questions  
Exam fee: \$52 (CBT)  
Open book—4-hour time limit

Content Area	% of Total	Approved References
Plumbing Fixtures and Terminology	5%	2012 <i>International Plumbing Code</i> ®
Plumbing Fundamentals	13%	2012 <i>International Fuel Gas Code</i> ®
Traps, Cleanouts, and Interceptors	4%	
Special Requirements	4%	
Drainage Requirements	14%	
Venting Requirements	14%	
Water Distribution	12%	
Plan Reading	14%	
Gas	20%	
<b>Total</b>	<b>100%</b>	

**311 Washington DC Master A/C & Refrigeration Mechanical Unlimited**80 multiple-choice questions  
Exam fee: \$52 (CBT)  
Open book—3-1/2-hour time limit

Content Area	% of Total	Approved References
Theory, System Types, Terminology, and General Requirements	30%	2012 <i>International Mechanical Code</i> ®
Refrigerant and Condensate Piping	12%	2004 <i>Modern Refrigeration and Air Conditioning</i>
Evaporators, Compressors, Condensers, Chillers, Cooling Towers, Heat Pumps, Heating and AC Appliances	15%	
Conditioned Air, Supply, Return, Makeup, Combustion Air, Air Ducts, Dampers, and Insulation	7%	
Electrical Fundamentals and Controls	9%	
Refrigerants	10%	
Operating Procedures, including Safety	9%	
Maintenance and Repairs	8%	
<b>Total</b>	<b>100%</b>	

**312 Washington DC Journeyman Air Conditioning and Refrigeration**60 multiple-choice questions  
Exam fee: \$52 (CBT)  
Open book—2-hour time limit

Content Area	% of Total	Approved References
Theory, System Types, Terminology, and General Requirements	32%	2012 <i>International Mechanical Code</i> ®
Refrigerant and Condensate Piping	12%	2004 <i>Modern Refrigeration and Air Conditioning</i>
Evaporators, Compressors, Condensers, Chillers, Cooling Towers, Heat Pumps, Heating and AC Appliances	10%	
Conditioned Air, Supply, Return, Makeup, Combustion Air, Air Ducts, Dampers, and Insulation	5%	
Electrical Fundamentals and Controls	9%	
Refrigerants	12%	
Operating Procedures, including Safety	12%	
Maintenance and Repairs	8%	
<b>Total</b>	<b>100%</b>	

**322 Washington DC Master Refrigeration and Air Conditioning Mechanic Limited**

70 multiple-choice questions  
Exam fee: \$52 (CBT)  
Open book—3-hour time limit

Content Area	% of Total	Approved References
Theory, System Types, Terminology, and General Requirements	16%	2012 <i>International Mechanical Code</i> ®
Refrigerant and Condensate Piping	18%	2004 <i>Modern Refrigeration and Air Conditioning</i>
Evaporators, Compressors, Condensers, Chillers, Cooling Towers, Heat Pumps, Heating and AC Appliances	15%	
Conditioned Air, Supply, Return, Makeup, Combustion Air, Air Ducts, Dampers, and Insulation	15%	
Electrical Fundamentals and Controls	9%	
Refrigerants	10%	
Operating Procedures, including Safety	9%	
Maintenance and Repairs	8%	
<b>Total</b>	<b>100%</b>	

**300 Washington DC Master Gas Pipe Fitter**

75 multiple-choice questions  
Exam fee: \$52 (CBT)  
Open book—3-hour time limit

Content Area	% of Total	Approved References
Terminology and Fundamentals	13%	2012 <i>International Fuel Gas Code</i> ®
Theory and Principles	13%	
Plan Reading	13%	
Operating Principles	8%	
Materials	7%	
Pipe Sizing and Installation	20%	
Appliances	14%	
Vents	5%	
Special Requirements	7%	
<b>Total</b>	<b>100%</b>	

**301 Washington DC Journeyman Gas Pipe Fitter**

50 multiple-choice questions  
Exam fee: \$52 (CBT)  
Open book—3-hour time limit

Content Area	% of Total	Approved References
Terminology and Fundamentals	6%	2012 <i>International Fuel Gas Code</i> ®
Basic Theory and Principles	10%	
Materials	12%	
Appliances	24%	
Venting	24%	
Pipe Sizing and Installation	24%	
<b>Total</b>	<b>100%</b>	

**313 Washington DC First Class Stationary Boilers**

 80 multiple-choice questions  
 Exam fee: \$52 (CBT)  
CLOSED 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	7%	<i>High Pressure Boilers</i> , Harold J. Frost & Daryl R. Walker
Water Treatment	8%	<i>Steam Plant Operation</i> , McGraw Hill
Boiler Combustion and Fuels	7%	<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	8%	2014 <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	8%	<i>HVAC Control Systems</i> , ATP
Refrigeration, Air Conditioning, and Cooling Towers	8%	<b>Note:</b> With the exception of <i>Ugly's Electrical Reference</i> , any edition of the above books is acceptable.
Boiler Design and Principles	8%	
<b>Total</b>	<b>100%</b>	

**314 Washington DC Second Class Stationary Boilers**

 80 multiple-choice questions  
 Exam fee: \$52 (CBT)  
CLOSED 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	7%	<i>High Pressure Boilers</i> , Harold J. Frost & Daryl R. Walker
Water Treatment	8%	<i>Steam Plant Operation</i> , McGraw Hill
Boiler Combustion and Fuels	7%	<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	8%	2014 <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	8%	<i>HVAC Control Systems</i> , ATP
Refrigeration, Air Conditioning, and Cooling Towers	8%	<b>Note:</b> With the exception of <i>Ugly's Electrical Reference</i> , any edition of the above books is acceptable.
Boiler Design and Principles	8%	
<b>Total</b>	<b>100%</b>	

**323 Washington DC Third Class Stationary Boilers**

70 multiple-choice questions  
Exam fee: \$52 (CBT)  
CLOSED book—2-1/2-hour time limit

Content Area	% of Total	Approved References
Boiler Operations, Maintenance, and Safety	10%	<i>Boiler Operator's Workbook</i> , ATP
Water Treatment	10%	<i>Stationary Engineering</i> , ATP
Boiler Combustion, Fuels, and Pollution Control	10%	<i>High Pressure Boilers</i> , Harold J. Frost & Daryl R. Walker
Boiler Accessories and Auxiliary Equipment	10%	<i>Steam Plant Operation</i> , McGraw Hill
Engineering Calculations	10%	<i>Boiler Operator's Guide</i> , McGraw Hill
Electrical	10%	<i>2014 Ugly's Electrical Reference</i>
Controls—Pneumatic and Electronic	10%	<i>Low Pressure Boilers</i> , ATP
Pumps, Feed, Hydronic, and Condensate Systems	10%	<i>HVAC Control Systems</i> , ATP
Refrigeration, Air Conditioning, and Cooling Towers	10%	<i>Electric Motor Control for Integrated Systems</i> , ATP
Boiler Design and Principles	10%	<b>Note:</b> With the exception of <i>Ugly's Electrical Reference</i> , any edition of the above books is acceptable.
<b>Total</b>	<b>100%</b>	

**328 Washington DC Class 5A Boiler Operator 25 Horsepower or Less**

50 multiple-choice questions  
Exam fee: \$52 (CBT)  
CLOSED 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%	<i>High Pressure Boilers</i> , Harold J. Frost & Daryl R. Walker
Feedwater System	20%	<b>Note:</b> Any edition of the above books is acceptable.
Steam System	20%	
Draft System	4%	
Boiler Water Treatment	6%	
Boiler Operation Safety	20%	
<b>Total</b>	<b>100%</b>	

**335 Washington DC Sixth Class Stationary Boilers**

70 multiple-choice questions  
Exam fee: \$52 (CBT)  
CLOSED book—2-1/2-hour time limit

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