



INTERNATIONAL
CODE
COUNCIL®

National Contractor/Trades Examination Information Bulletin

PUBLISHED September 27, 2022

This edition supersedes all previous bulletin editions

*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.*

International Code Council Vision

Creating safe, affordable, and sustainable buildings and communities.

International Code Council Mission

Provide the codes, tools, and resources that members rely on,
building safety professionals turn to, and manufacturers and the public trust.

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

Contents are subject to change at any time.

For the most updated information, visit the [Exam Catalog](#).

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www.iccsafe.org/contractor

SUMMARY OF BULLETIN CHANGES

Date of Change	Section Affected	Revision
January 15, 2021	National Contractor/Trade Examinations	Added seven G-Series examinations
March 26, 2021	National Contractor/Trade Examinations	National Contractor/Trades Exams based on the 2011 NEC/2012 International Codes will retire on June 30, 2021 .
September 15, 2021	Reformatted Entire Bulletin	Reformatted Entire Bulletin
November 3, 2021	National Contractor/Trade Examinations	Updated F12/F13 Blueprints
November 30, 2021	National Contractor/Trade Examinations	Updated G16, G17, G18 Blueprints
January 24, 2022	National Contractor/Trade Examinations	Added G34 and G35 National Contractor exams
February 14, 2022	National Contractor/Trades Examinations	Added PRONTO testing to G18 Residential Electrician
February 16, 2022	National Contractor/Trades Examinations	Added three new T-Series exams based on the 2020 National Electrical Code (NEC). See page 37 for additional details
May 27, 2022	National Contractor/Trades Examinations	Added PRONTO testing method to 2020 National Electrical Code (NEC) T-series examinations
June 8, 2022	National Contractor/Trades Examinations	Updated the F13/G13 Blueprints
June 24, 2022	National Contractor/Trades Examinations	Revised approved editions of the Concrete Manual
July 15, 2022	National Contractor/Trades Examinations	Updated the G16/T16 Blueprint
July 28, 2022	National Contractor/Trades Examinations	Re-added F49 – Electrical Contractor exam
August 9, 2022	National Contractor/Trades Examinations	Updated references for the Roofing Contractor/Subcontractor exams (F14/G14)
September 27, 2022	National Contractor/Trades Examinations	Updated G35 reference

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.

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.

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.

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General Information and Frequently Asked Questions

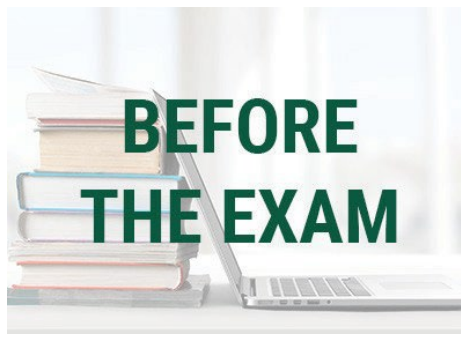
The purpose of this bulletin is to provide you with information regarding how to schedule and take your contractor/trades examination. Prior to scheduling a test with this program, you should first consult with your local or state licensing agency to determine which examination you should take. Some 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.

Table of Contents

International Code Council Vision.....	1
International Code Council Mission.....	1
About Code Council Contractor/Trades Testing.....	3
General Information and Frequently Asked Questions.....	4
Before the Exam	5
Before Purchasing an Exam	5
After Purchasing an Exam	7
Exam Day	9
After the Exam	11
National Contractor/Trades Examination Information.....	11
Based on the 2014 NEC and 2015 International Codes.....	12
Based on the 2017 NEC and 2018 International Codes.....	12
Based on the 2020 NEC and 2018 International Codes.....	12

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, visit the [Exam Catalog](#) or call 1-888-ICC-SAFE (422-7233). For fastest service, for general questions, dial 0; for specific information on your certification, dial ext. 5524.



Before Purchasing an Exam

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?

Some licensing agencies may require you to apply through them prior to testing with ICC, while others may not. Please contact your local licensing agency or review the appropriate National Contractor/Trades Examination Information Bulletin on the Code Council's [website](#).

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 methods are available?

The Code Council offers two different testing methods.

- **Pearson VUE** - Traditional, computer-based testing occurs at test sites administered by Pearson VUE frequently at over 350 sites across the nation. To locate test sites in your area, visit the [Pearson VUE](#) website for an updated listing of sites. Be aware that test sites are subject to change.
- **Proctored Remote Online Testing Option (PRONTO)** - is available any time; 24/7, 365 days/year. 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, click [here](#).
***Currently limited to specific exam titles; additional exams to become available 2022.

Visit the [Exam Catalog](#) for information on which testing method is available for your exam.

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 the [Exam Catalog](#).

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 the [Exam Catalog](#). Additional policies governing the use of references can be found later in this bulletin.

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 vary depending upon the subject matter. To get the most updated information on examinations, visit the [Exam Catalog](#).

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.

When will I receive my results?

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

Do I have to be a computer whiz?

Candidates are not required to have any computer knowledge to take the examination.

- **Pearson VUE** - 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.
- **PRONTO** – a Tutorial exam is available upon exam purchase. Log in to your [myICC](#) account and go to Pronto Dashboard.

How do I pay for my exam?

- **Pearson VUE** - 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 [ICC Contractors Vouchers](#) 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.

- **PRONTO** – Examination fees must be paid by credit card, debit card or voucher.
 - If you have a [myICC](#) account, log in and access the [Exam Catalog](#).
 - If you do not have a myICC account, start [here](#) and create one prior to purchase.

All exam 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.

After Purchasing an Exam

How do I schedule/register for an exam?

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 you may schedule an examination online at [PearsonVUE](#). 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.

Code Council certification 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 | • Independence Day | • Thanksgiving |
| • Martin Luther King, Jr. Day | • Labor Day | (including the following Friday) |
| • Memorial Day | • Veteran’s Day | • Christmas Day |

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

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

For **PRONTO**, go to the ICC PRONTO web portal at pronto.iccsafe.org to register and pay for an exam.

How do I reschedule/cancel my exam?

- **Pearson VUE** - You must notify Pearson VUE two business days before your scheduled examination; an administrative fee will incur. Click [here](#) or call 1-877-234-6082.

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.

There are no refunds for examinations not taken. 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:

- Documented illness, either yourself or immediate family member;
- Death in the immediate family;
- Disabling traffic accident;
- Court appearance or jury duty; or
- 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.

- **PRONTO** - Exams must be withdrawn **before** the exam start time. Click [here](#) for additional information.

What if I need testing accommodations?

If you have a disability that prohibits you from taking the examination under standard conditions, you may request special arrangements.

- **PearsonVUE** – Email accommodations@pearsonvue.com to request special testing services, call 1-800-466-0450, or submit a request.
- **PRONTO** - Complete and submit the [ADA Accommodation Request Form](#)

How do I access my passed exam results on the ICC website?

Visit [here](#) for the Contractor Exam pass link.



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.

Identity Verification

All candidates are required to present a government issued photo identification.



The identification must:

- Have the same legal first and last name that matches the exam record,
- Be original (no photo copies)
- Must be valid (not expired)
- Contain a signature

NOTE: Proxy testing is a violation of the ICC administrative rules. Candidates who participate in proxy testing may be permanently banned from testing and subject to legal action.

If you are unable to present identification as required by the Code Council, or have questions about what will be allowed, you must call ICC or Pearson VUE prior to your scheduled exam to make other arrangements.

Candidate Behavior

Candidates are expected to remain professional at all times and treat the proctors with respect.

All ProctorU and PearsonVUE staff are tasked with ensuring examination integrity. They 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.

NOTE: Proctors cannot discuss contents of the exam or reference materials with a candidate.

Proctors have the right to end an examination administration at any time for examination anomalies including, but not limited to, the following behaviors:



- Gives or receives help during an examination
- Creating a disturbance
- Copying or attempts to copy examination questions or answers
- Is found to have prohibited materials (phones, recorders, loose papers, etc.) during the examination
- Talks during the examination
- Becomes belligerent or threatens the proctor, test site administration, or other candidates.

Agree to ICC Rules

Prior to launching the examination, candidates are required to read and agree to follow all ICC rules, policies, and procedures.

This includes the following:



- [Candidate Agreement](#)
- [Certification Program Rules of Procedure](#)
- [ICC Code of Ethics](#)

What can I bring to the exam?

What is Allowed:

- Reference material(s) - please make sure the reference(s):
 - Are bound (either original bound book, three-ring binder, or stapled). Photocopies of copyrighted materials are not allowed.
 - All notes are written in ink or highlighted
 - Any tabs are permanently attached (tabs that can't be removed without destroying the page)
- Magnifying glass
- Eyeglasses, if necessary
- Architects' scale or ruler
- Foreign language/English translation dictionaries
- Battery-operated calculator that is:
 - Nonprogrammable
 - Not capable of storing examination information
 - No ribbon or paper printing capabilities

What is not Allowed:

- No food or drink (unless approved through testing accommodations)
- Any kind of writing instruments, writing paper, or briefcases

Note: PRONTO candidates utilize an on screen "Global Notepad" during their examination. PearsonVUE candidates are supplied with a small whiteboard and a marker. This marker can ONLY be used to write on the white board. Candidates using the marker/pen to write in their reference materials are subject to disciplinary action by the CC.

- Personal items such as purses, wallets, or watches
- Calculators with print capability and/or that store formulas
- Copying, recording, or photo devices
- No electronic devices other than the device utilized for the examination (unless approved through testing accommodations)



After the Exam

How do I request a duplicate pass letter?

Visit the [ICC Forms Library](#) >General Requests> and complete the [Replacement Result Letter](#).

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)

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.

How do I change my name and address?

For Name and Address changes, visit the [ICC Forms Library](#) > General Requests > [Change of Candidate Information Form](#); ICC will advise if additional documentation is needed.

How do I make comments about an exam I took?

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.

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.

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, Assessment Center 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: Client Relationship Manager
900 Montclair Road
Birmingham, AL 35213
Email: appeals@iccsafe.org

National Contractor/Trades Examination Information

Based on the 2014 NEC and 2015 International Codes

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

F11 National Standard General Building Contractor (A)		Pricing
90 multiple-choice questions		Pearson VUE: \$115
Open book – 4-hour time limit		PRONTO: N/A
Content Area	%	Reference
Administration General Regulations Administration Code Definitions and Terms Plan Reading	15%	2015 <i>International Building Code</i> ® <i>Concrete Manual: Based on the 2021 IBC and ACI 318-19</i> OR <i>Concrete Manual: Based on the 2015 IBC and ACI 318-14</i>
Building Planning and Life Safety Use & Occupancy & Types of Construction Fire and Smoke Alarms and Fire Protection Occupancy Needs and Interior Environment Exiting & Means of Egress Accessibility	25%	
Structural Systems Footings and Foundations Concrete Floors Wall Framing and Stairs Roof Ceiling Construction Roof Assembly Masonry	45%	
Building Envelope Interior Finishes Glass and Glazing Exterior Finishes and Roof Coverings	15%	

F12 National Standard General Building Contractor (B)

Pricing

80 multiple-choice questions

PearsonVUE: \$115

Open book – 4-hour time limit

PRONTO: N/A

Content Area	%	Reference
Permits and General Regulations	21%	2015 <i>International Building Code</i> ®
Regulations and Job Planning		2015 <i>International Residential Code</i>
Code Definitions and Terms		<i>Concrete Manual: Based on the 2021 IBC and ACI 318-19</i> OR
Building Planning and Life Safety		<i>Concrete Manual: Based on the 2015 IBC and ACI 318-14</i>
Use & Occupancy & Types of Construction	30%	
Fire & Smoke Alarms & Fire Protect Sys		
Exiting & Means of Egress		
Accessibility		
Structural Systems		
Footings and Foundations	42%	
Concrete		
Floors		
Wall Framing and Stairs		
Roof Ceiling Construction Roof Assembly		
Masonry		
Building Envelope		
Interior Finishes	8%	
Glass and Glazing		
Exterior Finishes and Roof Coverings		

F13 National Standard Residential Building Contractor (C)**80 multiple-choice questions****Open book – 4-hour time limit****Pricing****PearsonVUE: \$115****PRONTO: N/A**

Content Area	%	Reference
Permits and General Regulations	21%	2015 <i>International Residential Code</i> ®
Regulations and Job Planning		
Code Definitions and Terms		
Building Safety and Life Planning	16%	
Fire & Smoke Alarms & Fire Protection Sys		
Occupancy Needs & Interior Environment		
Exiting & Means of Egress		
Structural Systems	50%	
Footings and Foundations		
Concrete		
Floors		
Wall Framing and Stairs		
Roof Ceiling Construction Roof Assembly		
Masonry		
Building Envelope	13%	
Interior Finishes		
Glass and Glazing		
Exterior Finishes and Roof Coverings		

F14 National Standard Roofing Contractor/Subcontractor**60 multiple-choice questions****Open book – 3-hour time limit****Pricing****PearsonVUE: \$115****PRONTO: N/A**

Content Area	%	Reference
General Administration	5%	2015 <i>International Building Code</i> ®
Permits	6%	2015 <i>International Plumbing Code</i>
Inspections and Structural Tests	5%	
Violations and Stop Work Orders	2%	
Weather Protection	4%	
Fire Classification	15%	
Requirements for Roof Coverings	36%	
Re-roofing	2%	
Roof Insulation	5%	
Rooftop Structures	8%	
Roof Drainage	12%	

F15 National Standard Shingle Roofing		Pricing
40 multiple-choice questions		PearsonVUE: \$115
Open book – 2-hour time limit		PRONTO: N/A
Content Area	%	Reference
Job Planning and Setup	18%	2015 <i>International Building Code</i> ®
Types of Roofing Material and Applications	23%	2015 <i>International Residential Code</i>
Fasteners, Flashings, Scuppers, Etc.	32%	
Re-roofing	27%	

F16 Master Electrician		Pricing
100 multiple-choice questions		PearsonVUE: \$115
Open book – 5-hour time limit		PRONTO: \$115
Content Area	%	Reference
General Knowledge and Plan Reading	12%	2014 <i>National Electrical Code</i>
Services and Service Equipment	16%	Ugly's Electrical References (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%	

F17 National Standard Journeyman Electrician		Pricing
80 multiple-choice questions		PearsonVUE: \$115
Open book – 4-hour time limit		PRONTO: \$115
Content Area	%	Reference
General Knowledge	6%	2014 <i>National Electrical Code</i>
Services and Service Equipment	11%	Ugly's Electrical References (any edition)
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%	

F18 National Standard Residential Electrician		Pricing
60 multiple-choice questions		PearsonVUE: \$115
Open book – 3-hour time limit		PRONTO: N/A
Content Area	%	Reference
General Knowledge	12%	2014 <i>National Electrical Code</i>
Services and Service Equipment	22%	Ugly's Electrical References (any edition)
Feeders	13%	
Branch Circuits and Conductors	25%	
Wiring Methods and Materials	13%	
Equipment and Devices	8%	
Special Occupancies, Equipment, and Conditions	7%	

F19 National Standard Maintenance Electrician		Pricing
60 multiple-choice questions		PearsonVUE: \$115
Open book – 3-hour time limit		PRONTO: N/A
Content Area	%	Reference
General Knowledge and Calculations	10%	2014 <i>National Electrical Code</i>
Utilization Equipment and Devices	23%	
Motors and Controls	8%	
Wiring Methods, Materials, and Conductors	32%	
Grounding and Overcurrent Protection	18%	
Special Occupancies, Systems, and Equipment	9%	

Content Area	%	Reference
Administration General Regulations General Installation Requirements Code Definitions and Terms Plan Reading Testing Materials	46%	2015 <i>International Plumbing Code</i> ®
Plumbing Fixtures Water Heaters Water Closets and Urinals Specialty Fixtures Bathtubs, Showers, Sinks, and Lavatories	14%	
Water Supply and Distribution Service Distribution and Piping Water Supply and Pressure Protection of Potable Water Supply	11%	
Sanitary Drainage Building Sanitary Drainage Sumps and Ejectors Indirect and Special Waste Systems	11%	
Plumbing Vent Requirements Vent Connections and Grades Vent Terminals	8%	
Traps, Interceptors, and Separators Installation of Traps Interceptors and Separators	8%	
Storm Drainage Storm Drainage	2%	

Content Area	%	Reference
Administration General Regulations	40%	2015 <i>International Plumbing Code</i> ®
General Installation Requirements		
Code Definitions and Terms		
Plan Reading		
Testing		
Materials		
Plumbing Fixtures	17%	
Water Heaters		
Water Closets and Urinals		
Specialty Fixtures		
Bathtubs, Showers, Sinks, and Lavatories		
Water Supply and Distribution	14%	
Service Distribution and Piping		
Water Supply and Pressure		
Protection of Potable Water Supply		
Sanitary Drainage	13%	
Building Sanitary Drainage		
Sumps and Ejectors		
Indirect and Special Waste Systems		
Plumbing Vent Requirements	7%	
Vent Connections and Grades		
Vent Terminals		
Traps, Interceptors, and Separators	7%	
Installation of Traps		
Interceptors and Separators		
Storm Drainage	2%	
Storm Drainage		

F27 National Standard Master Plumber with Gas**80 multiple-choice questions****Open book – 4-hour time limit****Pricing****PearsonVUE: \$115****PRONTO: N/A**

Content Area	%	Reference
Administration	4%	2015 <i>International Fuel Gas Code</i>
General Regulations	8%	2015 <i>International Plumbing Code</i>
Fixtures	5%	
Water Heaters	4%	
Water Supply & Distributions	11%	
Sanitary Drainage	9%	
Vents	13%	
Traps, Interceptors, & Separators	4%	
Storm Drainage	2%	
Plan Reading	21%	
Gas	19%	

F28 National Standard Journeyman Plumber with Gas**70 multiple-choice questions****Open book – 3-hour time limit****Pricing****PearsonVUE: \$115****PRONTO: N/A**

Content Area	%	Reference
Plumbing Fixtures and Terminology	4%	2015 <i>International Fuel Gas Code</i>
Plumbing Fundamentals	14%	2015 <i>International Plumbing Code</i>
Traps, Cleanouts, and Interceptors	4%	
Special Requirements	4%	
Drainage Requirements	1%	
Venting Requirements	14%	
Water Distribution	12%	
Plan Reading	14%	
Gas	20%	

F29 National Standard Master Mechanical**100 multiple-choice questions****Open book – 4-hour time limit****Pricing****PearsonVUE: \$115****PRONTO: N/A**

Content Area	%	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 (NEC)</i>
Duct Systems	12%	
Chimneys and Vents	7%	
Fuel Supply Systems	7%	
Special Requirements	4%	
Electrical	9%	
Water	2%	

F31 National Standard Journeyman Mechanical**50 multiple-choice questions****Open book – 3-hour time limit****Pricing****PearsonVUE: \$115****PRONTO: N/A**

Content Area	%	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%	

F32 National Standard Residential Mechanical - Class C**70 multiple-choice questions****Open book – 3-hour time limit****Pricing****PearsonVUE: \$115****PRONTO: N/A**

Content Area	%	Reference
General Requirements	46%	2015 <i>International Residential Code</i>
Appliances and Equipment	14%	
Duct Systems	2%	
Combustion Air	14%	
Chimneys and Vents	6%	
Fuel Supply Systems	6%	

F33 National Standard Master Gas Pipe Fitter**75 multiple-choice questions****Open book – 3-hour time limit****Pricing****PearsonVUE: \$115****PRONTO: N/A**

Content Area	%	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%	

F34 National Standard Journeyman Gas Pipe Fitter		Pricing
55 multiple-choice questions		PearsonVUE: \$115
Open book – 2-hour time limit		PRONTO: N/A
Content Area	%	Reference
General Requirements	28%	2015 <i>International Fuel Gas Code</i>
Appliances and Equipment	20%	
Fuel Supply Systems	22%	
Combustion Air	10%	
Chimneys and Vents	22%	
Special Requirements	8%	

F35 Class DF Fire Suppression Installation Contractor		Pricing
60 multiple-choice questions		PearsonVUE: \$115
Open book – 2-hour time limit		PRONTO: N/A
Content Area	%	Reference
Inspection	15%	2015 <i>International Building Code</i>
Emergency Impairment	5%	2015 <i>International Fire Code</i>
Piping Systems	20%	2013 NFPA 13
Water Supply	10%	2013 NFPA 13D
Fire Pumps	10%	2013 NFPA 14, 20
Special Systems	20%	2014 NFPA 25
Accepting Systems	20%	

F46 National Standard Framing Contractor		Pricing
50 multiple-choice questions		PearsonVUE: \$115
Open book – 2-hour 30-minute time limit		PRONTO: N/A
Content Area	%	Reference
General Requirements, Code Definitions and Terms	26%	2015 <i>International Building Code</i>
Foundations, Floor Framing and Floor Load Design	22%	2015 <i>International Fire Code</i>
Wall Framing, Load Bearing, General Framing	32%	
Roof Framing and Roof Load Design	20%	

F49 Electrical Contractor		Pricing
80 multiple-choice questions		PearsonVUE: \$115
Open book – 3-hour 30-minute time limit		PRONTO: N/A
Content Area	%	Reference
General Requirements	10%	2014 <i>National Electrical Code (NEC)</i>
Services	17%	
Branch Circuit and Feeder Calculations	19%	
Wiring Methods and Distribution Systems	19%	
General Use Equipment	12%	
Special Occupancies	9%	
Special Equipment	7%	
Special Systems	7%	

National Contractor/Trades Examination Information

Based on the 2017 NEC and 2018 International Codes

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

G11 General Building Contractor (A)		Pricing
90 multiple-choice questions		PearsonVUE: \$115
Open book – 4-hour time limit		PRONTO: N/A
Content Area	%	Reference
Permits and General Regulations	19%	2018 <i>International Building Code</i> ®
Regulations and Job Planning		<i>Concrete Manual: Based on the 2021 IBC and ACI 318-19</i>
Code Definitions and Terms		OR <i>Concrete Manual: Based on the 2015 IBC or ACI 318-14</i>
Building Planning and Life Safety	31%	
Use & Occupancy & Types of Construction		
Fire & Smoke Alarms & Fire Protect Sys		
Occupancy Needs & Interior Environment		
Exiting & Means of Egress		
Accessibility		
Structural Systems	42%	
Footings and Foundations		
Concrete		
Floors		
Wall Framing and Stairs		
Roof Ceiling Construction Roof Assembly		
Masonry		
Building Envelope	8%	
Interior Finishes		
Glass and Glazing		
Exterior Finishes and Roof Coverings		

G12 General Building Contractor (B)

80 multiple-choice questions

Open book – 4-hour time limit

Pricing

PearsonVUE: \$115

PRONTO: N/A

Content Area	%	Reference
Permits and General Regulations Regulations and Job Planning Code Definitions and Terms	21%	2018 <i>International Building Code</i> ® 2018 <i>International Residential Code</i> <i>Concrete Manual: Based on the 2021 IBC and ACI 318-19</i> OR <i>Concrete Manual: Based on the 2015 IBC and ACI 318-14</i>
Building Planning and Life Safety Use & Occupancy & Types of Construction Fire & Smoke Alarms & Fire Protect Sys Occupancy Needs & Interior Environment Exiting & Means of Egress Accessibility	31%	
Structural Systems Footings and Foundations Concrete Floors Wall Framing and Stairs Roof Ceiling Construction Roof Assembly Masonry	42%	
Building Envelope Interior Finishes Glass and Glazing Exterior Finishes and Roof Coverings	8%	

G13 Residential Building Contractor (C)

80 multiple-choice questions

Open book – 4-hour time limit

Pricing

PearsonVUE: \$115

PRONTO: N/A

Content Area	%	Reference
Permits and General Regulations Regulations and Job Planning Code Definitions and Terms	19%	2018 <i>International Residential Code</i>
Building Planning and Life Safety Fire & Smoke Alarms & Fire Protect Sys Occupancy Needs & Interior Environment Exiting & Means of Egress	19%	
Structural Systems Footings and Foundations Concrete Floors Wall Framing and Stairs Roof Ceiling Construction Roof Assembly Masonry	50%	
Building Envelope Interior Finishes Glass and Glazing Exterior Finishes and Roof Coverings	12%	

G14 Roofing Contractor**Pricing****60 multiple-choice questions****PearsonVUE: \$115****Open book – 2-hour 30-minute time limit****PRONTO: N/A**

Content Area	%	Reference
Administration and General Requirements Administration Code Definitions and Terms Job Planning and Setup	28%	2018 <i>International Residential Code</i> 2018 <i>International Building Code</i> 2018 <i>International Plumbing Code</i>
Types of Roofing Material and Application Shingle Roofing Flat Roof Hot Mopping and Other Membranes	35%	
Fasteners, Flashings, Drainage, and Scuppers Fasteners Flashings and Accessory Materials Roof Drains, Gutters, and Scupper	28%	
Re-Roofing Remove Roofing Materials or Add Additional Layers Repair Roof Structure and Roof-Ceiling Assemblies	12%	

G15 National Standard Shingle Roofing**Pricing****60 multiple-choice questions****PearsonVUE: \$115****Open book – 2-hour 30-minute time limit****PRONTO: N/A**

Content Area	%	Reference
Job Planning and Setup	18%	2018 <i>International Building Code</i>
Types of Roofing Material and Application	23%	2018 <i>International Residential Code</i>
Fasteners, Flashings, Scuppers, Etc.	32%	
Re-roofing	27%	

G16 Master Electrician**Pricing****100 multiple-choice questions****PearsonVUE: \$115****Open book – 5-hour time limit****PRONTO: \$115**

Content Area	%	Reference
General Knowledge Electrical Theory and General Electrical Load Calculations, Code Definitions and Terms, Plan Reading	12%	2017 <i>National Electrical Code (NEC)</i> Ugly's Electrical Reference (any edition)
Services and Service Equipment Services and Fault Current, Service Load Calculations, Service Equipment & Service Conductors, Transformers, System Grounding and Bonding, Temporary Service Wiring	16%	
Feeders Load Calculations, Equipment Grounding	4%	
Branch Circuits and Conductors Branch Circuit Calculation, Overcurrent Protection, Conductors, Required Outlets & GFCI/ AFCI Protection, Equipment Grounding	16%	
Wiring Methods and Materials Raceway Installations, Underground Wiring Methods, Boxes and Enclosures, Cabinets, Panel boards, & Switchboards, Clearance and Guarding, Flexible Cords and Cables	19%	
Equipment and Devices Luminaires, Receptacles, Switches and Other Devices, Appliances and Other Equipment, Other Utilization Equipment, Heating and Cooling Equipment	10%	
Control Devices Switches, Disconnects and Controllers	3%	
Motors and Generators Motors, Generators	8%	
Special Occupancies, Equipment, and Conditions Special Occupancies, Swimming Pools and Similar Installations Mobile Home and RV Parks, Data Processing Equipment, Miscellaneous Special Equipment Emergency Systems, Signaling and Fire Alarm Systems	12%	

G17 Journeyman Electrician
80 multiple-choice questions
Open book – 4-hour time limit

Pricing
PearsonVUE: \$115
PRONTO: \$115

Content Area	%	Reference
General Knowledge Electrical Theory and General Electrical Load Calculations, Code Definitions and Terms, Plan Reading	6%	2017 <i>National Electrical Code (NEC)</i> Ugly's Electrical Reference (any edition)
Services and Service Equipment Services and Fault Current, Service Load Calculations, Service Equipment & Service Conductors, Transformers, System Grounding and Bonding, Temporary Service Wiring	11%	
Feeders Load Calculations, Equipment Grounding	4%	
Branch Circuits and Conductors Branch Circuit Calculation, Overcurrent Protection, Conductors, Required Outlets & GFCI/ AFCI Protection, Equipment Grounding	19%	
Wiring Methods and Materials Raceway Installations, Underground Wiring Methods, Boxes and Enclosures, Cabinets, Panel boards, & Switchboards, Clearance and Guarding, Flexible Cords and Cables	26%	
Equipment and Devices Luminaires, Receptacles, Switches and Other Devices, Appliances and Other Equipment, Other Utilization Equipment, Heating and Cooling Equipment	13%	
Control Devices Switches, Disconnects and Controllers	4%	
Motors and Generators Motors, Generators	6%	
Special Occupancies, Equipment, and Conditions Special Occupancies, Swimming Pools and Similar Installations Mobile Home and RV Parks, Data Processing Equipment, Miscellaneous Special Equipment Emergency Systems, Signaling and Fire Alarm Systems	11%	

G18 Residential Electrician**Pricing****60 multiple-choice questions****PearsonVUE: \$115****Open book – 3-hour time limit****PRONTO: \$115**

Content Area	%	Reference
General Knowledge	12%	<i>2017 National Electrical Code (NEC)</i>
Electrical Theory and General Electrical Load Calculations		Ugly's Electrical Reference (any edition)
Code Definitions and Terms		
Services and Service Equipment	22%	
Service Load Calculations		
Service Equipment & Service Conductors		
System Grounding and Bonding		
Feeders	13%	
Load Calculations		
Equipment Grounding		
Branch Circuits and Conductors	25%	
Branch Circuit Calculations		
Required Outlets & GFCI/ AFCI Protection		
Overcurrent Protection		
Equipment Grounding		
Conductor		
Wiring Methods and Materials	13%	
Raceway Installations		
Boxes and Enclosures		
Flexible Cords and Cables		
Equipment and Devices	8%	
Luminaires		
Receptacles, Switches and Other Devices		
Appliances and Other Equipment		
Special Occupancies, Equipment, and Conditions	7%	
Swimming Pools and Similar Installations		
Low Voltage Circuits, Alarm & Similar Systems		

G21 Low-Voltage Electrician
50 multiple-choice questions
Open book – 3-hour time limit

Pricing
PearsonVUE: \$115
PRONTO: N/A

Content Area	%	Reference
General Knowledge	24%	2017 <i>National Electrical Code (NEC)</i>
LV Remote Control & Alarm Systems	22%	Ugly's Electrical Reference (any edition)
LV Communications & Sound	36%	
LV Control Circuits	14%	
Fiber Optical	4%	

G24 Master Plumber
100 multiple-choice questions
Open book – 4-hour time limit

Pricing
PearsonVUE: \$115
PRONTO: N/A

Content Area	%	Reference
Administration General Regulations	46%	2018 <i>International Plumbing Code</i>
General Installation Requirements		
Code Definitions and Terms		
Plan Reading		
Testing		
Materials		
Plumbing Fixtures	14%	
Water Heaters		
Water Closets and Urinals		
Specialty Fixtures		
Bathtubs, Showers, Sinks, and Lavatories		
Water Supply and Distribution	11%	
Service Distribution and Piping		
Water Supply and Pressure		
Protection of Potable Water Supply		
Sanitary Drainage	11%	
Building Sanitary Drainage		
Sumps and Ejectors		
Indirect and Special Waste Systems		
Plumbing Vent Requirements	8%	
Vent Connections and Grades		
Vent Terminals		
Traps, Interceptors, and Separators	8%	
Installation of Traps		
Interceptors and Separators		
Storm Drainage	2%	
Storm Drainage		

Content Area	%	Reference
Administration General Regulations	40%	2018 <i>International Plumbing Code</i>
General Installation Requirements		
Code Definitions and Terms		
Plan Reading		
Testing		
Materials		
Plumbing Fixtures	17%	
Water Heaters		
Water Closets and Urinals		
Specialty Fixtures		
Water Supply and Distribution	14%	
Service Distribution and Piping		
Water Supply and Pressure		
Protection of Potable Water Supply		
Sanitary Drainage	13%	
Building Sanitary Drainage		
Sumps and Ejectors		
Indirect and Special Waste Systems		
Plumbing Vent Requirements	7%	
Vent Connections and Grades		
Vent Terminals		
Traps, Interceptors, and Separators	7%	
Installation of Traps		
Interceptors and Separators		
Storm Drainage	2%	
Storm Drainage		

Content Area	%	Reference
Administration General Regulations General Installation Requirements Code Definitions and Terms Plan Reading Testing Materials	36%	2018 <i>International Plumbing Code</i> 2018 <i>International Fuel Gas Code</i>
Plumbing Fixtures Water Heaters Water Closets and Urinals Specialty Fixtures Bathtubs, Showers, Sinks, and Lavatories	13%	
Water Supply and Distribution Service Distribution and Piping Water Supply and Pressure Protection of Potable Water Supply	9%	
Sanitary Drainage Building Sanitary Drainage Sumps and Ejectors Indirect and Special Waste Systems	8%	
Plumbing Vent Requirements Vent Connections and Grades Vent Terminals	6%	
Traps, Interceptors, and Separators Installation of Traps Interceptors and Separators	5%	
Storm Drainage Storm Drainage	2%	
Gas Piping Gas Piping for Service & Distribution Piping Gas Piping Requirements, Specific Appliances Equipment Source of Combustion Air & Duct Openings Fuel-burning Appliance, Vent, Connector	21%	

Content Area	%	Reference
Administration General Regulations General Installation Requirements Code Definitions and Terms Plan Reading Testing Materials	34%	2018 <i>International Plumbing Code</i> 2018 <i>International Fuel Gas Code</i>
Plumbing Fixtures Water Heaters Water Closets and Urinals Specialty Fixtures Bathtubs, Showers, Sinks, and Lavatories	11%	
Water Supply and Distribution Service Distribution and Piping Water Supply and Pressure Protection of Potable Water Supply	11%	
Sanitary Drainage Building Sanitary Drainage Sumps and Ejectors Indirect and Special Waste Systems	9%	
Plumbing Vent Requirements Vent Connections and Grades Vent Terminals	7%	
Traps, Interceptors, and Separators Installation of Traps Interceptors and Separators	7%	
Storm Drainage Storm Drainage	2%	
Gas Piping Gas Piping for Service & Distribution Piping Gas Piping Requirements, Specific Appliances Equipment Source of Combustion Air & Duct Openings Fuel-burning Appliance, Vent, Connector	19%	

G29 Master Mechanical
100 multiple-choice questions
Open book – 4-hour time limit

Pricing
PearsonVUE: \$115
PRONTO: N/A

Content Area	%	Reference
Administration General Regulations	30%	2018 <i>International Mechanical Code</i> 2018 <i>International Fuel Gas Code</i>
General Installation Requirements		
Code Definitions and Terms		
Plan Reading		
Testing		
Appliances & Mechanical Equipment	27%	
Heating Equipment & Gen App Installation		
Water Heaters and Boilers		
Cooling and Refrigeration Systems		
Hydronic and Other Systems		
Exhaust and Ventilation Systems	11%	
Exhaust Fan & Product Conveying Systems		
Commercial Hoods & Kitchen Ventilation		
Duct Systems	12%	
Duct Construction, Installation & Plenums		
Smoke and Fire Dampers		
Combustion Air	6%	
Venting of Fuel Burning Appliances		
Chimneys and Vents	8%	
Venting of Fuel Burning Appliances		
Chimney and Vent Connectors		
Fuel Supply Systems	6%	
Fuel Supply Installation, Testing and Sizing		

G31 Journeyman Mechanical
50 multiple-choice questions
Open book – 3-hour time limit

Pricing
PearsonVUE: \$115
PRONTO: N/A

Content Area	%	Reference
Administration General Regulations	22%	2018 <i>International Mechanical Code</i> 2018 <i>International Fuel Gas Code</i>
General Installation Requirements		
Plan Reading		
Appliances & Mechanical Equipment	22%	
Heating Equipment & Gen App Installation		
Water Heaters and Boilers		
Cooling and Refrigeration Systems		
Hydronic and Other Systems		
Exhaust and Ventilation Systems	14%	
Exhaust Fan & Product Conveying Systems		
Commercial Hoods & Kitchen Ventilation		
Duct Systems	16%	
Duct Construction, Installation & Plenums		
Smoke and Fire Dampers		
Combustion Air	8%	
Venting of Fuel Burning Appliances		
Chimneys and Vents	10%	
Venting of Fuel Burning Appliances		
Chimney and Vent Connectors		
Fuel Supply Systems	8%	
Fuel Supply Installation, Testing and Sizing		

G33 Master Gas Pipe Fitter
75 multiple-choice questions
Open book – 3-hour time limit

Pricing
PearsonVUE: \$115
PRONTO: N/A

Content Area	%	Reference
General Requirements	49%	2018 <i>International Fuel Gas Code</i>
General Installation Requirements		
Code Definitions and Terms		
Plan Reading		
Testing		
Materials		
Water Heaters	5%	
Installation of Water Heaters		
Appliances and Equipment	15%	
Requirements for Specific Appliances & Equipment		
Fuel Supply System Sizing	6%	
Service Distribution Pipe Sizing		
Combustion Air	13%	
Combustion Air Source, Size of Ducts/Openings		
Chimneys and Vents	12%	
Venting, Vent Connector, and Chimneys		

G34 National Standard Journeyman Gas Pipe Fitter**Pricing****55 multiple-choice questions****PearsonVUE: \$115****Open book – 2-hour time limit****PRONTO: N/A**

Content Area	%	Reference
General Requirements	40%	2018 <i>International Fuel Gas Code</i>
Appliances and Equipment	24%	
Fuel Supply System Sizing	10%	
Combustion Air	12%	
Chimneys and Vents	14%	

G35 Class DF Fire Suppression Installation Contractor**Pricing****60 multiple-choice questions****PearsonVUE: \$115****Open book – 2-hour time limit****PRONTO: N/A**

Content Area	%	Reference
Inspection	15%	2018 <i>International Building Code</i>
Emergency Impairment	5%	2018 <i>International Fire Code</i>
Piping Systems	20%	2016 NFPA 13
Water Supply	10%	2016 NFPA 14
Fire Pumps	10%	2016 NFPA 20
Special Systems	20%	2017 NFPA 25
Accepting Systems	20%	

National Contractor/Trades Examination Information

Based on the 2020 NEC and 2018 International Codes

T16 Master Electrician		Pricing
100 multiple-choice questions		PearsonVUE: \$115
Open book – 5-hour time limit		PRONTO: \$115
Content Area	%	Reference
General Knowledge Electrical Theory and General Electrical Load Calculations, Code Definitions and Terms, Plan Reading	12%	2020 <i>National Electrical Code (NEC)</i> Ugly's Electrical Reference (any edition)
Services and Service Equipment Services and Fault Current, Service Load Calculations, Service Equipment & Service Conductors, Transformers, System Grounding and Bonding, Temporary Service Wiring	16%	
Feeders Load Calculations, Equipment Grounding	4%	
Branch Circuits and Conductors Branch Circuit Calculation, Overcurrent Protection, Conductors, Required Outlets & GFCI/ AFCI Protection, Equipment Grounding	16%	
Wiring Methods and Materials Raceway Installations, Underground Wiring Methods, Boxes and Enclosures, Cabinets, Panel boards, & Switchboards, Clearance and Guarding, Flexible Cords and Cables	19%	
Equipment and Devices Luminaires, Receptacles, Switches and Other Devices, Appliances and Other Equipment, Other Utilization Equipment, Heating and Cooling Equipment	10%	
Control Devices Switches, Disconnects and Controllers	3%	
Motors and Generators Motors, Generators	8%	
Special Occupancies, Equipment, and Conditions Special Occupancies, Swimming Pools and Similar Installations Mobile Home and RV Parks, Data Processing Equipment, Miscellaneous Special Equipment Emergency Systems, Signaling and Fire Alarm Systems	12%	

T17 Journeyman Electrician**Pricing****80 multiple-choice questions****PearsonVUE: \$115****Open book – 4-hour time limit****PRONTO: S115**

Content Area	%	Reference
General Knowledge Electrical Theory and General Electrical Load Calculations, Code Definitions and Terms, Plan Reading	6%	2020 <i>National Electrical Code (NEC)</i> Ugly's Electrical Reference (any edition)
Services and Service Equipment Services and Fault Current, Service Load Calculations, Service Equipment & Service Conductors, Transformers, System Grounding and Bonding, Temporary Service Wiring	11%	
Feeders Load Calculations, Equipment Grounding	4%	
Branch Circuits and Conductors Branch Circuit Calculation, Overcurrent Protection, Conductors, Required Outlets & GFCI/ AFCI Protection, Equipment Grounding	19%	
Wiring Methods and Materials Raceway Installations, Underground Wiring Methods, Boxes and Enclosures, Cabinets, Panel boards, & Switchboards, Clearance and Guarding, Flexible Cords and Cables	26%	
Equipment and Devices Luminaires, Receptacles, Switches and Other Devices, Appliances and Other Equipment, Other Utilization Equipment, Heating and Cooling Equipment	13%	
Control Devices Switches, Disconnects and Controllers	4%	
Motors and Generators Motors, Generators	6%	
Special Occupancies, Equipment, and Conditions Special Occupancies, Swimming Pools and Similar Installations Mobile Home and RV Parks, Data Processing Equipment, Miscellaneous Special Equipment Emergency Systems, Signaling and Fire Alarm Systems	11%	

T18 Residential Electrician

Pricing

60 multiple-choice questions

PearsonVUE: \$115

Open book – 3-hour time limit

PRONTO: S115

Content Area	%	Reference
General Knowledge	12%	2020 <i>National Electrical Code (NEC)</i> Ugly's Electrical Reference (any edition)
Electrical Theory and General Electrical Load Calculations Code Definitions and Terms		
Services and Service Equipment	22%	
Service Load Calculations Service Equipment & Service Conductors System Grounding and Bonding		
Feeders	13%	
Load Calculations Equipment Grounding		
Branch Circuits and Conductors	25%	
Branch Circuit Calculations Required Outlets & GFCI/ AFCI Protection Overcurrent Protection Equipment Grounding Conductor		
Wiring Methods and Materials	13%	
Raceway Installations Boxes and Enclosures Flexible Cords and Cables		
Equipment and Devices	8%	
Luminaires Receptacles, Switches and Other Devices Appliances and Other Equipment		
Special Occupancies, Equipment, and Conditions	7%	
Swimming Pools and Similar Installations Low Voltage Circuits, Alarm & Similar Systems		