

Denver, Colorado Contractor/Trades Examination Information Bulletin

PUBLISHED September 24, 2024

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.

1-888-ICC-SAFE (422-7233), ext. 5524 <u>customersuccess@iccsafe.org</u> www.iccsafe.org/contractor

SUMMARY OF BULLETIN CHANGES

Date of Change	Section Affected	Revision
November 5, 2021	Reformatted Entire Bulletin	Reformatted Entire Bulletin
September 28, 2022	Denver, CO Contractor Trades Examination Bulletin	Updated references for the Building Exams Outlines and the F35
September 23, 2024	Denver, CO Contractor Trades Examination Bulletin	Revised verbiage and instructions on the After the Exam question: "How do I change my name and address?"
September 24, 2024	Denver, CO Contractor/Trades Examination Information Bulletin	Updated Duplicate Result Letter verbiage to reflect exams taken after 1/1/2014 can receive a duplicate result letter at no charge from Pearson VUE.

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 <u>not</u> 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.

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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, 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 <u>Pearson VUE</u> website for an updated listing of sites. Be aware that test sites are subject to change.

Visit the Exam Catalog for information on 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.

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.

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 <u>PearsonVUE</u>. 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
- Martin Luther King, Jr. Day
- Memorial Day

- Independence Day
- Labor Day
- Veteran's Day

- Thanksgiving (including the following Friday)
- 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

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 by phone at 877-234-6082 within fourteen (14) days of the original examination date.

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.

If there's an emergency, we ask that you contact Pearson Vue within 48 hours of your scheduled exam. If the emergency in question does not allow for the 48 hours' notice, please contact us and we're happy to discuss your situation with you.

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** - Call 1-800-466-0450 or send an email to accommodationspearsonvue@pearsonvue.com requesting special testing services.

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,
- Must be valid (not expired)
- Be original (no photocopies)
- 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

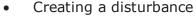
Candidates are expected to remain professional at all times and treat the proctors with respect.

All PearsonVUE staff is 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:





- 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.
 - o 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: 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)



How do I request a duplicate pass letter?

If you took an ICC Contractor/Trades examination at a Pearson VUE Test Center on or after January 1, 2014, please contact Pearson VUE via phone (1-877-234-6082) or chat to request a duplicate letter at no charge. All other candidates, please 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?

NOTE: Your ICC email address is the Pearson VUE email address used to register for an ICC Contractor/Trades examination. To update your candidate demographic information (Address, Phone Number, Email, and Legal Name), log in to your myICC account. Click here for additional information.

If you are unable to access your myICC account, please contact ICC at 1-888-422-7233 ext. 5524 or via email at customersuccess@iccsafe.org.

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 Credentialing 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, Credentialing 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

Denver, Colorado Contractor/Trades Examination Information

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

Building Examination Outlines

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

F12 National Standard General Building Contrac	Pricing	
80 multiple-choice questions		PearsonVUE: \$115
Open book — 4-hour time limit		PRONTO: N/A
Content Area	%	Reference
Administration	6%	2015 International Building Code®
Building Planning and Life Safety	5%	2015 International Residential Code
Plan Reading	13%	Concrete Manual: Based on the 2021 IBC and ACI 318-19*
Life Safety	9%	OR
Exterior Walls	3%	Concrete Manual: Based on the 2015 IBC and ACI 318-14*
Roof Assemblies and Rooftop Structures	8%	
Soils and Foundations	10%	
Concrete	5%	
Masonry	11%	
Steel	6%	
Wood	18%	
Glass and Glazing	1%	
Gypsum Board and Plaster	3%	
Special Construction	1%	
Energy Efficiency	1%	

F13 National Standard Residential Building Contractor (C)		Pricing
80 multiple-choice questions		PearsonVUE: \$115
Open book — 4-hour time limit		PRONTO: N/A
Content Area	%	Reference
Administration	9%	2015 International Residential Code®
Building Planning	10%	Concrete Manual: Based on the 2021 IBC and ACI 318-19*
Plan Reading	13%	OR
Life Safety	5%	Concrete Manual: Based on the 2015 IBC and ACI 318- 14*
Exterior Walls	3%	
Roof Assemblies and Rooftop Structures	8%	
Soils and Foundations	10%	
Concrete	3%	
Masonry	8%	
Wood	22%	
Glass and Glazing	3%	
Gypsum Board and Plaster	3%	
Energy Efficiency	3%	

491 Colorado (Denver) Demolition Class A		Pricing
50 multiple-choice questions		PearsonVUE: \$115
Open book – 2-hour time limit		PRONTO: N/A
Content Area	%	Reference
Job Assessment	24%	2018 International Building Code®
Site Preparation	10%	Denver Building Code, Amendments and Policies (DBC 2016), Chapter 1
Demolition	26%	Denver Building Code, Amendments and Policies (DBC 2016), Licensing,
Safety	40%	Certification, Registration, Permits, Plans, Inspection, and Certificate of Occupancy
		Denver Building Code, Amendments and Policies (DBC 2016), Chapter 33,
		Sitework, Demolition, and Construction
		Denver Building Code, Amendments and Policies (DBC 2016), Denver
		Building Permit Policy, IBC Amended 3303
		OSHA 29 CFR 1904, Recording and Reporting Occupational Injuries and
		Illnesses
		OSHA 29 CFR 1910, Occupational Safety and Health Standards
		OSHA 29 CFR 1926, Safety and Health Regulations for Construction

492 Colorado (Denver) Demolition Class B		Pricing	
30 multiple-choice questions		PearsonVUE: \$115	
Open book — 1-hour 30-minute time limit		PRONTO: N/A	
Content Area	%	Reference	
Job Assessment	46%	2015 International Building Code®	
Site Preparation	4%	Denver Building Code, Amendments and Policies (DBC 2016), Chapter 1	
Demolition	15% 35%	Denver Building Code, Amendments and Policies (DBC 2016), Licensing, Certification, Registration, Permits, Plans, Inspection, and Certificate of Occupancy Denver Building Code, Amendments and Policies (DBC 2016), Chapter 33, Sitework, Demolition, and Construction Denver Building Code, Amendments and Policies (DBC 2016), Denver Building Permit Policy, IBC Amended 3303 OSHA 29 CFR 1904, Recording and Reporting Occupational Injuries and Illnesses OSHA 29 CFR 1910, Occupational Safety and Health Standards OSHA 29 CFR 1926, Safety and Health Regulations for Construction	

Fire Protection Exam Outline

F35 Class DF Fire Suppression Installation Contractor			
60 multiple-choice questions		PearsonVUE: \$115	
Open book — 2-hour time limit		PRONTO: N/A	
Content Area	%	Reference	
General Requirements, Code Definitions and Terms	26%	2015 International Building Code	
Foundations, Floor Framing and Floor Load Design	22%	2015 International Residential Code	
Wall Framing, Load Bearing, General Framing	32%	13 NFPA 13D	
Roof Framing and Roof Load Design	20%	13 NFPA 14, 20	
		14 NFPA 25	

Electrical Exam Outlines

380 Colorado (Denver) Journeyman Electrical Signal 40 multiple-choice questions Open book — 3-hour time limit		Pricing PearsonVUE: N/A PRONTO: \$115
Content Area	%	Reference
Fire Alarm Application and Design	5%	NFPA 70: National Electrical Code (NEC), 2014
Fire Alarm Installation	35%	2015 International Building Code
General Low-voltage Wiring	40%	2016 NFPA 72
Emergency Voice Alarm Communications	5%	
Monitoring	5%	
Fire Alarm Testing	10%	

493 Colorado (Denver) Moving Supervisor		
**Only available via limited PRONTO (Proctored Remote Online Option) **	e Testing	
You <u>must</u> request to take this exam 4-6 weeks in advance contact the Assessment Center at <u>acrequests@iccsaferequest</u> request this exam.		
30 multiple-choice questions		Pricing PearsonVUE: N/A
Open book – 1-hour 30-minute time limit		PRONTO: \$115
Content Area	%	Reference
Job Assessment	46%	2015 International Building Code® Denver Building Code, Amendments and Policies (DBC
Site Preparation	4%	2016), Chapter 1 Denver Building Code, Amendments and Policies (DBC 2016), Licensing, Certification, Registration, Permits,
Demolition	15%	Plans, Inspection, and Certificate of Occupancy Denver Building Code, Amendments and Policies (DBC 2016), Chapter 33, Sitework, Demolition, and Construction Denver Building Code, Amendments and Policies (DBC 2016), Denver Building Permit Policy, IBC Amended 3303 OSHA 29 CFR 1904, Recording and Reporting Occupational Injuries and Illnesses OSHA 29 CFR 1910, Occupational Safety and Health Standards OSHA 29 CFR 1926, Safety and Health Regulations for Construction
Safety	35%	Construction

377 Colorado (Denver) Electrical Signal Supervisor		Pricing
40 multiple-choice questions		PearsonVUE: \$115
Open book — 2-hour time limit		PRONTO: N/A
Content Area	%	Reference
Fire Alarm Application and Design	20%	2015 International Building Code®
Fire Alarm Installation	30%	NFPA 70: National Electrical Code (NEC), 2014
General Low-voltage Wiring	30%	2013 NFPA 72
Emergency Voice Alarm Communications	5%	
Monitoring	5%	
Fire Alarm Testing	10%	

Mechanical Exam Outlines

F29 National Standard Master Mechanical 100 multiple-choice questions		Pricing PearsonVUE: \$115
Open book — 4-hour time limit		PRONTO: N/A
Content Area	%	Reference
General Requirements	33%	2015 International Mechanical Code
Appliances and Equipment	10%	2015 International Fuel Gas Code NFPA 70: National Electrical Code (NEC), 2014
Exhaust and Ventilation Systems	8%	
Duct Systems	12%	
Combustion Air	8%	
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 International Mechanical Code®
Appliances and Equipment	14%	2015 International Fuel Gas Code®
Exhaust and Ventilation Systems	2%	NFPA 70: National Electrical Code (NEC), 2014
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		Pricing
70 multiple-choice questions		PearsonVUE: \$115
Open book — 3-hour time limit		PRONTO: N/A
Content Area	%	Reference
General Requirements	32%	2015 International Residential Code®
Appliances and Equipment	6%	
Duct Systems	15%	
Combustion Air	23%	
Chimneys and Vents	10%	
Fuel Supply Systems	14%	

227 Colorado (Denver) Stationary Engineer 60 multiple-choice questions		Pricing PearsonVUE: \$115
Open book — 3-hour time limit		PRONTO: N/A
Content Area	%	Reference
Water Supply Treatment and Feed Systems	7%	2015 International Mechanical Code®
Fuels and Firing Methods	20%	2015 International Fuel Gas Code®
General Code Application and Venting	10%	Boiler Operator's Guide, 4th Edition
Startup and Shutdown Operations	5%	Steam Plant Operation, 8th Edition
Piping, Pumps, and Valving	10%	
Controls and Control Systems	20%	
Maintenance and Repairs	20%	
Tests and Inspections	8%	

228 Colorado (Denver) Refrigeration Operator		Pricing	
50 multiple-choice questions		PearsonVUE: \$115	
Open book — 2-hour 30-minute time limit		PRONTO: N/A	
Content Area	%	Reference	
Theory, Terminology and General Requirements	18%	2015 International Mechanical Code	
Compressors and Types of Systems	10%	NFPA 70: National Electrical Code (NEC), 2014	
Evaporators, Condensers and Cooling Towers	10%	Modern Refrigeration and Air Conditioning, 18 th Edition	
Piping Inspection and Field Testing	8%		
Air Ducts and Insulation	6%		
Electrical and Controls	22%		
Refrigerants	12%		
Operation Procedures	6%		
Maintenance and Repairs	8%		

F33 National Standard Master Gas Pipe Fitter			Pricing
75 multiple-choice questions		P	earsonVUE: \$115
Open book — 3-hour time limit			PRONTO: N/A
Content Area	%	Reference	
General Requirements	39%	2015 International Fuel Gas Code	
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 50 multiple-choice questions			Pricing PearsonVUE: \$115
Open book — 2-hour time limit			PRONTO: N/A
Content Area	%	Reference	
General Requirements	28%	2015 International Fuel Gas Code	
Appliances and Equipment	20%		
Fuel Supply Systems	22%		
Combustion Air	10%		
Chimneys and Vents	12%		
Special Requirements	8%		