



PSI licensure:certification
 3210 E Tropicana
 Las Vegas, NV 89121
www.psiexams.com

Before paying for your examination registration, be sure you understand the contents of this bulletin. Please retain and use it as a reference when contacting PSI.

STATE OF OKLAHOMA

ELECTRICAL, MECHANICAL, ROOFING, AND PLUMBING EXAMINATIONS CANDIDATE INFORMATION BULLETIN

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Please refer to our website to check for the most updated information at www.psiexams.com

EXAMINATIONS BY PSI

This Candidate Information Bulletin provides you with information about the examination and application process for Contractors Licensure in the State of Oklahoma.

Eligibility for examination is determined by the State of Oklahoma Construction Industries Board.

2401 NW 23rd Street, Suite 2F
Oklahoma City, OK 73107
www.ok.gov

The Board has contracted with PSI to conduct its examination program. PSI provides examinations through a network of computer examination centers in Oklahoma and in many areas throughout the United States. PSI works closely with the State to be certain that examinations meet local as well as national requirements in basic principles and examination development standards.

EXAMINATION SCHEDULING PROCEDURES

Once you have been approved by the State, you are responsible for contacting PSI to schedule an appointment to take the examination. You may either schedule via the Internet at www.psiexams.com, or schedule over the telephone at (800) 733-9267.

Each Examination Portion \$100

NOTE: REGISTRATION FEES ARE NOT REFUNDABLE OR TRANSFERABLE

The fee is for each registration, whether you are taking the examination for the first time or repeating.

- There is no expiration on your eligibility.
- If you fail the first time, you must wait 30 days before retesting.
- For every failure after the second fail, you must wait 90 days before retesting.
- The examination fee is valid for one year.

INTERNET REGISTRATION

For the fastest and most convenient test scheduling process, PSI recommends that candidates register for their exams using the Internet. Candidates register online by accessing PSI's registration website at www.psiexams.com. Internet registration is available 24 hours a day.

- Log onto PSI's website and create an account. Please enter your email address and first and last name. This information must match exactly with the information PSI has on file. Be sure to **check the box next to "Check here to attempt to locate existing records for you in the system"**
- You will be asked to select the examination and enter your OK ID #. Your record will be found and you will now be ready to pay and schedule for the exam. Enter your zip code and a list of the testing sites closest to you will appear. Once you select the desired test site, available dates will appear. If you have problems, contact PSI at (800) 733-9267 for help.

TELEPHONE REGISTRATION

For telephone registration, you will need a valid credit card (Visa, MasterCard, American Express or Discover).

PSI registrars are available at (800) 733-9267, Monday through Friday between 6:30 am and 9:00 pm, and Saturday-Sunday between 8:00 am and 4:30 pm, Central Time, to receive your payment and schedule your appointment for the examination.

FAX REGISTRATION

Complete the PSI registration form (found at the end of this bulletin), including your credit card number and expiration date. Fax the completed form to PSI (702) 932-2666. Fax registrations are accepted 24 hours a day.

Please allow 4 business days to process your Registration. After 4 business days, you may go online or call PSI to schedule the examination.

STANDARD MAIL REGISTRATION

Complete the PSI registration form (found at the end of this bulletin), and appropriate examination fee to PSI. Payment of fees can be made by credit card (Visa, MasterCard, American Express or Discover), company check, money order or cashier's check, made payable to PSI. Print your name on the check or money order to ensure that your fees are properly assigned. **CASH and PERSONAL CHECKS ARE NOT ACCEPTED.**

Please allow 2 weeks to process your registration. After 2 weeks, you may go online or call PSI to schedule the examination.

MISSED APPOINTMENT OR LATE CANCELLATION

Your registration will be invalid, you will not be able to take the examination as scheduled, and you will forfeit your examination fee, if you:

- Do not cancel your appointment in the appropriate timeframe, please see the application form for details;
- Do not appear for your examination appointment;
- Arrive after examination start time;
- Do not present proper identification when you arrive for the examination.

EXAM ACCOMMODATIONS

All examination centers are equipped to provide access in accordance with the Americans with Disabilities Act (ADA) of 1990, and exam accommodations will be made in meeting a candidate's needs. Applicants with disabilities or those who would otherwise have difficulty taking the examination must fill out the form at the end of this Candidate Information Bulletin and fax to PSI (702) 932-2666. This form also includes out-of-state testing requests.

EXAMINATION SITE CLOSING FOR AN EMERGENCY

In the event that severe weather or another emergency forces the closure of an examination site on a scheduled examination date, your examination will be rescheduled. PSI personnel will attempt to contact you in this situation. However, you may check the status of your examination schedule by calling (800) 733-9267. Every effort will be made to reschedule your examination at a convenient time as soon as possible. You may also check PSI's website at www.psiexams.com.



EXAMINATION SITE LOCATION

The Oklahoma Contractor licensing examinations are administered at the PSI examination centers in Oklahoma as listed below:

Oklahoma City

3800 N Classen Blvd, Ste C-20
Oklahoma City, OK 73118

Take I-235 to I-44. Take the Classen Blvd exit. Turn left on Classen. The office is located in a dark gray building on the East side of Classen.

Oklahoma City II

NW 23rd St and Villa Avenue, Suite 60
Shepherd Mall Office Complex
Oklahoma City, OK 73107

From I-44, exit at the NW 23rd Street off ramp. Then drive east 2.4 miles on NW 23rd St to Villa Ave. The test center is located in a large shopping mall on the northeast corner of NW 23rd and Villa Ave., now called Shepherd Center Office Complex. Note that the mall is L-shaped. The test center is located on the back side of the complex where the building turns to form the letter L. Park there and enter the building through Entrance D. You can see our Suite 60 only from inside the building, not from the outside.

Tulsa

2816 East 51st Street, Suite 101
Tulsa, OK 74105

From I-44 East, exit number 228 (Harvard), stay to the right which will be westbound on 51st St. 1/4 mi on the left is the office building. There are 3 office buildings in a row, PSI is in the middle MIA building.

From I-44 West, exit at Lewis, and go left on Lewis. Go over the overpass and turn Left on 51st St. Go 1/2 mile and the 3-three-story-office building are in a row on the South side of 51st St. PSI is in the middle MIA building

McAlester

21 East Carl Albert Parkway (US Hwy 270)
McAlester, Oklahoma 74501

*From Main St: turn onto US 270 - E. Carl Albert Parkway. The Test Center will be on your left between Main and 1st St.
From US Hwy 69: Take the exit for US 270-W - Carl Albert Parkway and go approximately 1.5 miles. The Test Center will be on your right between 1st and Main St.*

Woodward

1915 Oklahoma Ave, Suite 3
Woodward, OK 73801

From Highway 270, go west at the intersection of 9th and Oklahoma Avenue. Go west 10 blocks to 19th Street. The building is on the south side of Oklahoma Avenue, across from the Sonic Drive-In.

Lawton

Great Plains Technology Center
4500 SW Lee Blvd
Lawton, OK 73505

Travel on Lee Blvd. until reaching the Great Plains Technology Center School, which is located at 4500 Southwest Lee Blvd, Lawton, OK. Enter the east gate of the campus and drive straight until you find Building 300, also called the Worley Seminar Center. There are 3 sets of doors on the north side of this building. Enter the middle set of doors, turn right and find the Instructional Services Department located in room 308.

Additionally, PSI has examination centers in many other regions across the United States. You may take the written examination at any of these locations by submitting the Out-of-State Testing Request form found at the end of this bulletin.

REPORTING TO THE EXAMINATION SITE

On the day of the examination, you should arrive at least 30 minutes before your appointment. This extra time is for sign-in, identification, and familiarizing you with the examination process. ***If you arrive late, you may not be admitted to the examination site and you will forfeit your examination registration fee.***

REQUIRED IDENTIFICATION AT EXAMINATION SITE

You must provide 2 forms of identification. One must be a VALID form of government issued identification (driver's license, state ID, passport, military ID), which bears your signature and has your photograph. The second ID must have your signature and preprinted legal name.

If you cannot provide the required identification, you must call (800) 733-9267 at least 3 weeks prior to your scheduled appointment to arrange a way to meet this security requirement. ***Failure to provide all of the required identification at the time of the examination without notifying PSI is considered a missed appointment, and you will not be able to take the examination.***

SECURITY PROCEDURES

The following security procedures will apply during the examination:

- Only non-programmable calculators that are silent, battery-operated, do not have paper tape printing capabilities, and do not have a keyboard containing the alphabet will be allowed in the examination site.
- Candidates may take only approved items into the examination room.
- All personal belongings of candidates, with the exception of close-fitting jackets or sweatshirts, should be placed in the secure storage provided at each site prior to entering the examination room. Personal belongings **include, but are not limited to**, the following items:
 - **Electronic devices of any type**, including cellular / mobile phones, recording devices, electronic watches, cameras, pagers, laptop computers, tablet computers (e.g., iPads), music players (e.g., iPods), smart watches, radios, or electronic games.
 - **Bulky or loose clothing or coats** that could be used to conceal recording devices or notes, including coats, shawls, hooded clothing, heavy jackets, or overcoats.
 - **Hats or headgear not worn for religious reasons** or as religious apparel, including hats, baseball caps, or visors.
 - **Other personal items**, including purses, notebooks, reference or reading material, briefcases, backpacks, wallets, pens, pencils, other writing devices, food, drinks, and good luck items.
- Person(s) accompanying an examination candidate may not wait in the examination center, inside the building or on the building's property. This applies to guests of any nature, including drivers, children, friends, family, colleagues or instructors.



- No smoking, eating, or drinking is allowed in the examination center.
- During the check in process, all candidates will be asked if they possess any prohibited items. Candidates may also be asked to empty their pockets and turn them out for the proctor to ensure they are empty. The proctor may also ask candidates to lift up the ends of their sleeves and the bottoms of their pant legs to ensure that notes or recording devices are not being hidden there.
- Proctors will also carefully inspect eyeglass frames, tie tacks, or any other apparel that could be used to harbor a recording device. Proctors will ask to inspect any such items in candidates' pockets.
- If prohibited items are found during check-in, candidates shall put them in the provided secure storage or return these items to their vehicle. PSI will not be responsible for the security of any personal belongings or prohibited items.
- Any candidate possessing prohibited items in the examination room shall immediately have his or her test results invalidated, and PSI shall notify the examination sponsor of the occurrence.
- Any candidate seen giving or receiving assistance on an examination, found with unauthorized materials, or who violates any security regulations will be asked to surrender all examination materials and to leave the examination center. All such instances will be reported to the examination sponsor.
- Copying or communicating examination content is violation of a candidate's contract with PSI, and federal and state law. Either may result in the disqualification of examination results and may lead to legal action.
- Once candidates have been seated and the examination begins, they may leave the examination room only to use the restroom, and only after obtaining permission from the proctor. Candidate will not receive extra time to complete the examination.

TAKING THE EXAMINATION BY COMPUTER

The examination will be administered via computer. You will be using a mouse and computer keyboard.

IDENTIFICATION SCREEN

You will be directed to a semiprivate testing station to take the examination. When you are seated at the testing station, you will be prompted to confirm your name, identification number, and the examination for which you are registered.

TUTORIAL

Before you start your examination, an introductory tutorial is provided on the computer screen. The time you spend on this tutorial, up to 15 minutes, DOES NOT count as part of your examination time. Sample questions are included following the tutorial so that you may practice answering questions, and reviewing your answers.

TEST QUESTION SCREEN

The "function bar" at the top of the test question provides mouse-click access to the features available while taking the examination.

The screenshot shows a web-based test interface. At the top, there is a function bar with icons for Mark, Comments, Goto, Help, and End. Below this, a status bar displays: Question: 3 of 40, Answered: 2, Unanswered: 1, Marked: 0, View: All, Time Left(Min): 359. The main question area contains the text: "3. What do the stars on the United States of America's flag represent?". Below the question, it says "(Choose from the following options)". There are four radio button options: "1. Presidents", "2. Colonies", "3. States", and "4. Wars". At the bottom of the question area, there are navigation buttons: "<< Back" and "Next >>".

One question appears on the screen at a time. During the examination, minutes remaining will be displayed at the top of the screen and updated as you record your answers.

IMPORTANT: After you have entered your responses, you will later be able to return to any question(s) and change your response, provided the examination time has not run out.

EXPERIMENTAL QUESTIONS

In addition to the number of questions for the Mechanical, Roofing, and Plumbing exams, up to ten "experimental" questions may be administered to candidates during the examinations. These questions will not be scored and the time taken to answer them will not count against examination time. The administration of such non-scored experimental questions is an essential step in developing future licensing examinations.

Note that time has been added to the Electrical exams to allow for these non-scored items, as shown in the Electrical Exams Content Outlines below.

EXAMINATION REVIEW

PSI, in cooperation with the Oklahoma Board, will be consistently evaluating the examinations being administered to ensure that the examinations accurately measure competency in the required knowledge areas. Comments may be entered by clicking on the Comments link on the function bar of the test question screen. Your comments regarding the questions and the examinations are welcomed.

Comments will be analyzed by PSI examination development staff. While PSI does not respond to individuals regarding these comments, all substantive comments are reviewed. If a discrepancy is found during the comment review, PSI and the Board may re-evaluate candidates' results and adjust them accordingly. **This is the only review of the examination available to candidates.**

SCORE REPORTING

Your score will be given to you immediately following completion of the examination. The following summary describes the score reporting process:

- **On screen** - your score will appear immediately on the computer screen. This will happen automatically at the end of the time allowed for the examination;
 - If you **pass**, you will immediately receive a successful notification.
 - If you **do not pass**, you will receive a diagnostic report indicating your strengths and weaknesses by examination type with the score report.
- **On paper** - an unofficial score report will be printed at the examination site.

If you pass the license exam, the Oklahoma State Construction Industries Board will issue you a license.

DUPLICATE SCORE REPORTS

You may request a duplicate score report after your examination by emailing scorereport@psionline.com or by calling 800-733-9267. The fee for a duplicate score report is \$15.

TIPS FOR PREPARING FOR YOUR LICENSE EXAMINATION

The following suggestions will help you prepare for your examination.

- Planned preparation increases your likelihood of passing.
- Start with a current copy of this Candidate Information Bulletin and use the examination content outline as the basis of your study.
- Read study materials that cover all the topics in the content outline.
- Take notes on what you study. Putting information in writing helps you commit it to memory and it is also an excellent business practice. Discuss new terms or concepts as frequently as you can with colleagues. This will test your understanding and reinforce ideas.
- Your studies will be most effective if you study frequently, for periods of about 45 to 60 minutes. Concentration tends to wander when you study for longer periods of time.

EXAMINATION REFERENCE MATERIAL AND CONTENT OUTLINE

If a test question answer could differ because of conflicting information in test reference sources, a legal requirement such as code, law, or regulation overrides any other reference. If two legal requirements appear to conflict, the state-specific code, law, or regulation overrides the national one. Information from sources on the test reference list override information from other sources or persons.

Many of the reference materials listed are available for purchase at www.psionlinestore.com or by calling the PSI Online Store, toll-free, at (866) 589-3088. Titles currently in stock are listed on the order form near the end of this candidate information bulletin.

ELECTRICAL BUSINESS AND LAW

50 Scored Items - 120 minutes - 75% Correct to Pass

Non-Scored Items - 15 Minutes

Topic Information	# of Items
1. Bidding and Estimating a. General Estimating b. Bid	10
2. Project Management and Supervision a. General Project Oversight b. Oversee Budget c. Oversee Quality Control d. Oversee Materials Control e. Manage Jobsite Safety f. Schedule g. Potentially Hazardous Materials h. Environmental Protection i. Submittals and Reports j. Ethics k. Liens	7
3. Contracts a. Terminology b. Required Elements/Components c. Contract Types d. Change Orders e. Standardized Documents f. Interpretation g. Warranties h. Documents/Inclusions i. Other Obligations	5
4. Financial a. Business Organization Characteristics, Advantages, and Disadvantages b. Business Start-up c. Accounting Method d. Cash Flow Terminology e. Accounts Receivable f. Accounts Payable g. Balance Sheet h. Income Statement i. Taxes on Company Income j. Obtaining Financing k. Checking Account l. Financial Ratios	8
5. Labor and Personnel a. ADA b. Labor Standards c. Requirements for Non-citizens and/or Non-residents d. Workers' Compensation e. Federal or State OSHA f. New Hires	5



	g. Personnel Record Keeping h. Other Requirements	
6.	Risk Management a. Insurance b. Bonds	4
7.	Payroll and Payroll Taxes a. Taxes b. Forms and Due Dates	5
8.	Licensing Requirements a. Required Insurance/Bonds b. Renewal	6

REFERENCE LIST

The reference materials listed below were used to prepare the questions for this examination. The examination may also contain questions based on trade knowledge or general industry practices. Except for Code books, you can base your answers on later editions of references as they become available. For Code questions, the examinations will be based only on the edition of the Code book that is listed.

Candidates may use a silent, non-printing, non-programmable calculator in the examination center. Candidates will also be provided with a magnifying glass upon request.

This examination is OPEN BOOK.

The following reference materials are allowed in the examination center:

- *State of Oklahoma, Construction Industries Board, Unofficial Administrative Rules & Courtesy Exam Study Aids Book*, current edition (available at the Construction Industries Board Office - no fee).
- *Oklahoma Electrical Industry Regulations*, Oklahoma Administrative Code, Title 158, Chapter 40, Oklahoma Construction Industries Board, 2401 N.W. 23rd Street, Suite 2F, Oklahoma City, OK 73107, www.ok.gov/cib
- *Oklahoma Fine Schedule of the Construction Industries Board*, Oklahoma Administrative Code, Title 158, Chapter 10, Oklahoma Construction Industries Board, 2401 N.W. 23rd Street, Suite 2F, Oklahoma City, OK 73107, www.ok.gov/cib
- *Oklahoma Electrical License Act*, Oklahoma Statutes, Title 59, Chapter 40A, Oklahoma Construction Industries Board, 2401 N.W. 23rd Street, Suite 2F, Oklahoma City, OK 73107, www.ok.gov/cib
- *Oklahoma Lien Law*, Oklahoma Statutes, Title 42, Chapter 3, Oklahoma Construction Industries Board, 2401 N.W. 23rd Street, Suite 2F, Oklahoma City, OK 73107, www.ok.gov/cib
- *Contractors' Guide to Business, Law and Project Management*, Basic 11th or 12th Edition, National Association of State Contractors Licensing Agencies (NASCLA), 23309 N. 17th Drive, Phoenix, Arizona 85027, Telephone: (623) 587-9519, Fax: (623) 587-9625, www.nascla.org. **Only the 12th Edition may be used after 7/1/2018.**

- Oklahoma Workers' Compensation Act, Oklahoma Statutes, Title 85A, Chapter 1, Oklahoma Construction Industries Board, 2401 N.W. 23rd Street, Suite 2F, Oklahoma City, OK 73107, www.ok.gov/cib
OR
Oklahoma Workers' Compensation Act Statutory Excerpts, Oklahoma Statutes, Title 85A, Chapter 1, Oklahoma Construction Industries Board, 2401 N.W. 23rd Street, Suite 2F, Oklahoma City, OK 73107, www.ok.gov/cib

Candidates are responsible for bringing their own references to the examination center. Reference materials may be highlighted, underlined, and/or indexed prior to the examination session. References may not be written in prior to or during the examination session. Any candidate caught writing in the references during the examination will have the references confiscated and will be reported to the department. Furthermore, candidates are not permitted to bring in any additional papers with their approved references. Any additional materials will be removed from the references and confiscated. References may be tabbed/indexed with permanent tabs only. **Temporary tabs**, such as Post-It notes, are not allowed and must be removed from the reference before the exam will begin. If you download a reference from the Internet, it must be spiral bound or hole-punched and placed in a binder, or stapled in the left hand corner.

LIMITED ELECTRICAL CONTRACTOR

SCOPE OF WORK

Tests a candidate's knowledge of the design, plan, layout, installation, repair and alteration of electrical conductors, fixtures, appliances, apparatus, raceways, conduit and related equipment and fixtures that use electrical energy for light, heat, power, data and communications.

100 Scored Items - 240 minutes - 75% Correct to Pass

Non-Scored Items - 15 Minutes

Topic Information	# of Items
1. General Knowledge a. Permits and Inspections b. Preservation of Structural Integrity c. Needs Analysis and Estimate	4
2. General Electrical Knowledge a. Voltage, Current, and Resistance in Series, Parallel, and Combination Circuits b. Power Used in a Circuit c. Power Lost (called Heat Lost) in Any Circuit d. Fundamental AC Theory e. Fundamental Three-phase AC Theory f. Cost of Power Used in a Circuit g. Troubleshooting and Test Systems h. National Electrical Codebook i. Definitions Used by the NEC j. Temporary Wiring k. Cranes and Hoists l. Elevators and Escalators	10
3. Electrical Installation Requirements a. Approved Methods of Installation of Electrical Equipment b. Approved Methods of Installation of Electrical Equipment in Excess of 600 volts	10



4.	Services, Feeders, and Branch Circuits	10
	<ul style="list-style-type: none"> a. Services b. Voltage Drop for Branch Circuits or Feeders c. Services in Excess of 600 volts d. Feeders e. Outside Branch Circuits and Feeders f. Branch Circuits g. Space-heating, Snow-melting, and Pipe-heating Circuits h. Air-conditioning and Refrigeration Equipment 	
5.	Overcurrent Protection	6
	<ul style="list-style-type: none"> a. NEC Overcurrent Protection Requirements 	
6.	Grounding and Bonding	10
	<ul style="list-style-type: none"> a. General Requirements b. Required Sizes of Grounding Electrode Conductors c. Required Sizes of Equipment Grounding Conductors 	
7.	Conductors and Cables	6
	<ul style="list-style-type: none"> a. Underground Conductors and Cables b. Vertical Installations c. Selecting Conductors d. Armored Cable, Type AC e. Metal-clad Cable, Type MC f. Nonmetallic-sheathed Cable, Types NM, NMC, NMS g. Service Entrance Cables, Types SE and USE h. Underground Feeder and Branch Circuit Cable, Type UF i. Mineral Insulated, Type MI j. Flat Cable Assemblies, Type FC, and Flat Conductor Cable, Type FCC k. Medium Voltage Cable, Type MV 	
8.	Raceways and Boxes	7
	<ul style="list-style-type: none"> a. General Raceway Requirements b. General Box Requirements c. Pull Boxes d. Conduit Fittings e. Type RMC (Rigid Metal Conduit) f. Type EMT (Electric Metallic Conduit) g. Type IMC (Intermediate Metal Conduit) h. Type RNC (Rigid Nonmetallic Conduit) i. Type FMC (Flexible Metal Conduit) j. Type LFMC (Liquid-tight Flexible Metal Conduit) k. Type FMT (Flexible Metallic Tubing) l. Type HDPE (High-density Polyethylene Conduit) m. Type NUCC (Nonmetallic Underground Conduit with Conductors) n. Type LFNC (Liquid-tight Flexible Nonmetallic conduit) o. Area of Raceway and Number of Conduct (Conduit Fill) p. Outlet, Device, Pull, and Junction Boxes q. Box Volume and Fill r. Auxiliary Gutters, Busways, Concrete and Nonconcrete Raceways s. Metal and Nonmetallic Wireways t. Surface Metal and Nonmetallic Raceways u. Underfloor Raceways v. Cabletrays 	

9.	Special Occupancies and Equipment (Including Swimming Pools)	10
	<ul style="list-style-type: none"> a. Wiring in Class I, II, and III Hazardous Locations b. Wiring in Commercial Garages and Fuel Dispensing Facilities c. Wiring in Bulk Storage Plants, Paint, and Spray Areas d. Special Occupancies e. Wiring in Health Facilities and Places of Assembly f. Wiring of Mobile Home, Mobile Home Parks, RVs, and RV Parks g. Wiring of Floating Buildings h. Wiring to Swimming Pools, Fountains, and Hot Tubs 	
10.	Low Voltage, Alarms, Signaling Systems, and Communications	7
	<ul style="list-style-type: none"> a. Remote Control or Signaling Circuits b. Communication Circuits c. Equipment Operating at 50 volts or Less d. Fiber Optics e. Photovoltaics f. Remote Controls g. Fire Alarms h. Circuit Wiring for an Emergency System i. Communications Systems Wiring 	
11.	Lighting and Signs	10
	<ul style="list-style-type: none"> a. Fixture Installation b. Fixture Grounding c. Fixture Wiring d. Fluorescent Fixtures e. Fixture Construction Requirements f. Recessed Fixtures g. Lighting Systems that Operate at Less Than 30 volts h. Neon Lighting and Electric Signs 	
12.	Safety	4
	<ul style="list-style-type: none"> a. Job Site Sanitation b. Responsibility for Providing Personal Protective Equipment c. Excavation Safety d. Emergency Action Plans e. Safety Training Requirements f. Ventilation g. First Aid Kit Requirements h. Use of Personal Protective Equipment i. Signs, Signals, and Barricades j. Tools and Equipment k. Ladders l. Workplace Illumination m. Scaffolds n. Requirements for Work Around Toxic Materials o. Material Cleanup and Disposal p. Material Safety Data Sheets (MSDS) q. Handling and Storing Materials r. Fall Protection 	
13.	Motors and Transformers	6
	<ul style="list-style-type: none"> a. Motors Used in Dwellings b. Motor Branch Circuits in Industrial and Commercial Locations c. Feeder Transformers d. Use of Transformers 	

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This examination is OPEN BOOK.

The following reference materials are allowed in the examination center:

- *NFPA 70 - National Electrical Code*, 2014 Edition, as revised and adopted by the Oklahoma Uniform Building Code Commission, National Fire Protection Association (NFPA), 1 Batterymarch Park, Quincy, MA 02169-9101, (800) 344-3555, www.nfpa.org. NEC Handbooks and spiral-bound copies of the National Electrical Code will NOT be allowed in the test center.
- *Code of Federal Regulations - 29 CFR Part 1926 (OSHA)*, with latest available amendments, 866-512-1800, <http://www.access.gpo.gov/nara/cfr/cfr-table-search.html#page1>
OR
Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI, with latest available amendments, 866-589-3088, <http://www.psionlinestore.com>
- *Ugly's Electrical References*, George V. Hart, 2008, 2011, or 2014 edition, Jones and Bartlett, (800) 832-0034, www.uglys.net

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3. Electrical Installation Requirements a. Approved Methods of Installation of Electrical Equipment b. Approved Methods of Installation of Electrical Equipment in Excess of 600 volts	10
4. Services, Feeders, and Branch Circuits a. Services b. Voltage Drop for Branch Circuits or Feeders c. Services in Excess of 600 volts d. Feeders e. Outside Branch Circuits and Feeders f. Branch Circuits g. Space-heating, Snow-melting, and Pipe-heating Circuits h. Air-conditioning and Refrigeration Equipment	10
5. Overcurrent Protection a. NEC Overcurrent Protection Requirements	6
6. Grounding and Bonding a. General Requirements b. Required Sizes of Grounding Electrode Conductors c. Required Sizes of Equipment Grounding Conductors	10
7. Conductors and Cables a. Underground Conductors and Cables b. Vertical Installations c. Selecting Conductors d. Armored Cable, Type AC e. Metal-clad Cable, Type MC f. Nonmetallic-sheathed Cable, Types NM, NMC, NMS g. Service Entrance Cables, Types SE and USE h. Underground Feeder and Branch Circuit Cable, Type UF i. Mineral Insulated, Type MI j. Flat Cable Assemblies, Type FC, and Flat Conductor Cable, Type FCC k. Medium Voltage Cable, Type MV	6



8.	Raceways and Boxes <ol style="list-style-type: none"> General Raceway Requirements General Box Requirements Pull Boxes Conduit Fittings Type RMC (Rigid Metal Conduit) Type EMT (Electric Metallic Conduit) Type IMC (Intermediate Metal Conduit) Type RNC (Rigid Nonmetallic Conduit) Type FMC (Flexible Metal Conduit) Type LFMC (Liquid-tight Flexible Metal Conduit) Type FMT (Flexible Metallic Tubing) Type HDPE (High-density Polyethylene Conduit) Type NUCC (Nonmetallic Underground Conduit with Conductors) Type LFNC (Liquid-tight Flexible Nonmetallic conduit) Area of Raceway and Number of Conduct (Conduit Fill) Outlet, Device, Pull, and Junction Boxes Box Volume and Fill Auxiliary Gutters, Busways, Concrete and Nonconcrete Raceways Metal and Nonmetallic Wireways Surface Metal and Nonmetallic Raceways Underfloor Raceways Cabletrays 	7
9.	Special Occupancies and Equipment (Including Swimming Pools) <ol style="list-style-type: none"> Wiring in Class I, II, and III Hazardous Locations Wiring in Commercial Garages and Fuel Dispensing Facilities Wiring in Bulk Storage Plants, Paint, and Spray Areas Special Occupancies Wiring in Health Facilities and Places of Assembly Wiring of Mobile Home, Mobile Home Parks, RVs, and RV Parks Wiring of Floating Buildings Wiring to Swimming Pools, Fountains, and Hot Tubs 	10
10.	Low Voltage, Alarms, Signaling Systems, and Communications <ol style="list-style-type: none"> Remote Control or Signaling Circuits Communication Circuits Equipment Operating at 50 volts or Less Fiber Optics Photovoltaics Remote Controls Fire Alarms Circuit Wiring for an Emergency System Communications Systems Wiring 	7
11.	Lighting and Signs <ol style="list-style-type: none"> Fixture Installation Fixture Grounding Fixture Wiring Fluorescent Fixtures Fixture Construction Requirements Recessed Fixtures Lighting Systems that Operate at Less Than 30 volts Neon Lighting and Electric Signs 	10

12.	Safety <ol style="list-style-type: none"> Job Site Sanitation Responsibility for Providing Personal Protective Equipment Excavation Safety Emergency Action Plans Safety Training Requirements Ventilation First Aid Kit Requirements Use of Personal Protective Equipment Signs, Signals, and Barricades Tools and Equipment Ladders Workplace Illumination Scaffolds Requirements for Work Around Toxic Materials Material Cleanup and Disposal Material Safety Data Sheets (MSDS) Handling and Storing Materials Fall Protection 	4
13.	Motors and Transformers <ol style="list-style-type: none"> Motors Used in Dwellings Motor Branch Circuits in Industrial and Commercial Locations Feeder Transformers Use of Transformers 	6

REFERENCE LIST

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UNLIMITED ELECTRICAL JOURNEYMAN

SCOPE OF WORK

Tests a candidate's knowledge of the design, plan, layout, installation, repair and alteration of electrical conductors, fixtures, appliances, apparatus, raceways, conduit and related equipment and fixtures that use electrical energy for light, heat, power, data and communications in a supervised environment.

100 Scored Items - 240 minutes - 75% Correct to Pass
Non-Scored Items - 15 Minutes

Topic Information	# of Items
1. General Knowledge	4
<ul style="list-style-type: none"> a. Permits and Inspections b. Preservation of Structural Integrity c. Needs Analysis and Estimate 	
2. General Electrical Knowledge	10
<ul style="list-style-type: none"> a. Voltage, Current, and Resistance in Series, Parallel, and Combination Circuits b. Power Used in a Circuit c. Power lost (called Heat Lost) in Any Circuit d. Fundamental AC Theory e. Fundamental Three-phase AC Theory f. Cost of Power Used in a Circuit g. Troubleshooting and Test Systems h. National Electrical Codebook i. Definitions Used by the NEC j. Temporary Wiring k. Cranes and Hoists l. Elevators and Escalators 	
3. Electrical Installation Requirements	10
<ul style="list-style-type: none"> a. Approved Methods of Installation of Electrical Equipment b. Approved Methods of Installation of Electrical Equipment in Excess of 600 volts 	
4. Services, Feeders, and Branch Circuits	10
<ul style="list-style-type: none"> a. Services b. Voltage Drop for Branch Circuits or Feeders c. Services in Excess of 600 volts d. Feeders e. Outside Branch Circuits and Feeders f. Branch Circuits g. Space-heating, Snow-melting, and Pipe-heating Circuits h. Air-conditioning and Refrigeration Equipment 	

5. Overcurrent Protection	6
<ul style="list-style-type: none"> a. NEC Overcurrent Protection Requirements 	
6. Grounding and Bonding	10
<ul style="list-style-type: none"> a. General Requirements b. Required Sizes of Grounding Electrode Conductors c. Required Sizes of Equipment Grounding Conductors 	
7. Conductors and Cables	6
<ul style="list-style-type: none"> a. Underground Conductors and Cables b. Vertical Installations c. Selecting Conductors d. Armored Cable, Type AC e. Metal-clad Cable, Type MC f. Nonmetallic-sheathed Cable, Types NM, NMC, NMS g. Service Entrance Cables, Types SE and USE h. Underground Feeder and Branch Circuit Cable, Type UF i. Mineral Insulated, Type MI j. Flat Cable Assemblies, Type FC, and Flat Conductor Cable, Type FCC k. Medium Voltage Cable, Type MV 	
8. Raceways and Boxes	7
<ul style="list-style-type: none"> a. General Raceway Requirements b. General Box Requirements c. Pull Boxes d. Conduit Fittings e. Type RMC (Rigid Metal Conduit) f. Type EMT (Electric Metallic Conduit) g. Type IMC (Intermediate Metal Conduit) h. Type RNC (Rigid Nonmetallic Conduit) i. Type FMC (Flexible Metal Conduit) j. Type LFMC (Liquid-tight Flexible Metal Conduit) k. Type FMT (Flexible Metallic Tubing) l. Type HDPE (High-density Polyethylene Conduit) m. Type NUCC (Nonmetallic Underground Conduit with Conductors) n. Type LFNC (Liquid-tight Flexible Nonmetallic Conduit) o. Area of Raceway and Number of Conduct (Conduit Fill) p. Outlet, Device, Pull, and Junction Boxes q. Box Volume and Fill r. Auxiliary Gutters, Busways, Concrete and Nonconcrete Raceways s. Metal and Nonmetallic Wireways t. Surface Metal and Nonmetallic Raceways u. Underfloor Raceways v. Cabletrays 	
9. Special Occupancies and Equipment (Including Swimming Pools)	10
<ul style="list-style-type: none"> a. Wiring in Class I, II, and III Hazardous Locations b. Wiring in Commercial Garages and Fuel Dispensing Facilities c. Wiring in Bulk Storage Plants, Paint, and Spray Areas d. Special Occupancies e. Wiring in Health Facilities and Places of Assembly f. Wiring of Mobile Home, Mobile Home Parks, 	



	RVs, and RV Parks g. Wiring of Floating Buildings h. Wiring to Swimming Pools, Fountains, and Hot Tubs	
10.	Low Voltage, Alarms, Signaling Systems, and Communications a. Remote Control or Signaling Circuits b. Communication Circuits c. Equipment Operating at 50 volts or Less d. Fiber Optics e. Photovoltaics f. Remote Controls g. Fire Alarms h. Circuit Wiring for an Emergency System i. Communications Systems Wiring	7
11.	Lighting and Signs a. Fixture Installation b. Fixture Grounding c. Fixture Wiring d. Fluorescent Fixtures e. Fixture Construction Requirements f. Recessed Fixtures g. Lighting Systems that Operate at Less Than 30 volts h. Neon Lighting and Electric Signs	10
12.	Safety a. Job Site Sanitation b. Responsibility for Providing Personal Protective Equipment c. Excavation Safety d. Emergency Action Plans e. Safety Training Requirements f. Ventilation g. First Aid Kit Requirements h. Use of Personal Protective Equipment i. Signs, Signals, and Barricades j. Tools and Equipment k. Ladders l. Workplace Illumination m. Scaffolds n. Requirements for Work Around Toxic Materials o. Material Cleanup and Disposal p. Material Safety Data Sheets (MSDS) q. Handling and Storing Materials r. Fall Protection	4
13.	Motors and Transformers a. Motors Used in Dwellings b. Motor Branch Circuits in Industrial and Commercial Locations c. Feeder Transformers d. Use of Transformers	6

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OR
Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI, with latest available amendments, 866-589-3088, <http://www.psionlinestore.com> (See order form at the end of the Candidate Information Bulletin.)
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RESIDENTIAL ELECTRICAL CONTRACTOR

SCOPE OF WORK

Tests a candidate's knowledge of the design, plan, layout, installation, repair and alteration of electrical conductors, fixtures, appliances, apparatus, raceways, conduit and related equipment and fixtures that use electrical energy for light, heat, power, data and communications as it applies to one-, two-, or three-family residences.

80 Scored Items - 210 minutes - 75% Correct to Pass
Non-Scored Items - 15 Minutes

Topic Information	# of Items
1. General Knowledge a. Permits and Inspections b. Preservation of Structural Integrity c. Needs analysis and estimate	4

REFERENCE LIST

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2.	General Electrical Knowledge	
	<ul style="list-style-type: none"> a. Voltage, Durrent, and Resistance in Series, Parallel, and Combination Circuits b. Power Used in a Circuit c. Power Lost (called Heat Lost) in Any Circuit d. Fundamental AC Theory e. Fundamental Three-phase AC Theory f. Cost of Power Used in a Circuit g. System Troubleshooting and Testing h. Use of the National Electrical Codebook i. Understanding and Application of Definitions Used by the NEC j. Temporary Wiring k. Elevators and Escalators 	12
3.	Electrical Installation Requirements	
	<ul style="list-style-type: none"> a. Approved Methods of Installation of Electrical Equipment b. Approved Methods of Installation of Electrical Equipment in Excess of 600 volts 	10
4.	Services, Feeders, and Branch Circuits	
	<ul style="list-style-type: none"> a. Services b. Voltage Drop for Branch Circuits or Feeders c. Services in Excess of 600 volts d. Feeders e. Outside Branch Circuits and Feeders f. Branch Circuits g. Space-heating, Snow-melting, and Pipe-heating Circuits h. Air-conditioning and Refrigeration Equipment 	10
5.	Overcurrent Protection	
	<ul style="list-style-type: none"> a. NEC Overcurrent Protection Requirements 	6
6.	Grounding and Bonding	
	<ul style="list-style-type: none"> a. General Requirements b. Grounding Electrode Conductors c. Equipment Grounding Conductors 	8
7.	Conductors and Cables	
	<ul style="list-style-type: none"> a. Install Underground Conductors and Cables b. Perform Vertical Installations c. Select Conductor d. Armored Cable, Type AC e. Metal-clad Cable, Type MC f. Nonmetallic-sheathed Cable, Types NM, NMC, NMS g. Service Entrance Cables, Types SE and USE h. Underground Feeder and Branch Circuit Cable, Type UF i. Mineral Insulated, Type MI j. Flat Cable Assemblies, Type FC, and Flat Conductor Cable, Type FCC k. Medium Voltage Cable, Type MV 	6
8.	Raceways and Boxes	
	<ul style="list-style-type: none"> a. General Raceway Requirements b. General Box Requirements c. Pull Boxes and Conduit Fittings d. Type RMC (Rigid Metal Conduit) e. Type EMT (Electric Metallic Conduit) f. Type IMC (Intermediate Metal Conduit) g. Type RNC (Rigid Nonmetallic Conduit) h. Type FMC (Flexible Metal Conduit) i. Type LFMC (Liquid-tight Flexible Metal Conduit) j. Type FMT (Flexible Metallic Tubing) 	6

	<ul style="list-style-type: none"> k. Type HDPE (High-density Polyethylene Conduit) l. Type NUCC (Nonmetallic Underground Conduit with Conductors) m. Type LFNC (Liquid-tight Flexible Nonmetallic Conduit) n. Area of Raceways and Number of Conduct (Conduit Fill) o. Outlet, Device, Pull, and Junction Boxes p. Box Volume and Fill q. Auxiliary Gutters, Busways, Concrete, and Nonconcrete Raceways r. Metal and Nonmetallic Wireways s. Surface Metal and Nonmetallic Raceways t. Underfloor Raceways u. Cabletrays 	
9.	Special Occupancies and Equipment (Including Swimming Pools)	
	<ul style="list-style-type: none"> a. Wiring of Mobile Home, Mobile Home Parks, RVs, and RV Parks b. Required Wiring to Swimming Pools, Fountains, and Hot Tubs 	4
10.	Low Voltage, Alarms, Signaling Systems, and Communications	
	<ul style="list-style-type: none"> a. Remote Control or Signaling Circuits b. Communication Circuits c. Equipment Operating at 50 volts or Less d. Fiber Optic e. Photovoltaics f. Remote Control g. Fire Alarms h. Circuit Wiring for Emergency Systems i. Communications Systems Wiring 	6
11.	Lighting and Signs	
	<ul style="list-style-type: none"> a. Fixtures Installation b. Fixtures Grounding c. Fixture Wiring d. Fluorescent Fixtures e. Fixture Construction Requirements f. Recessed Fixtures g. Lighting Systems that Operate at Less Than 30 volts 	4
12.	Safety	
	<ul style="list-style-type: none"> a. Job Site Sanitation b. Responsibility for Providing Personal Protective Equipment c. Excavation Safety d. Emergency Action Plans e. Safety Training Requirements f. Ventilation g. First Aid Kit Requirements h. Use of Personal Protective Equipment i. Signs, Signals, and Barricades j. Tools and Equipment k. Ladders l. Workplace Illumination m. Scaffolds n. Requirements for Work Around Toxic Materials o. Material Cleanup and Disposal p. Material Safety Data Sheets (MSDS) q. Handling and Storing Materials r. Fall Protection 	4

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RESIDENTIAL ELECTRICAL JOURNEYMAN

SCOPE OF WORK

Tests a candidate's knowledge of the installation, repair and alteration of electrical conductors, fixtures, appliances, apparatus, raceways, conduit and related equipment and fixtures that use electrical energy for light, heat, power, data

and communications as it applies to one-, two-, or three-family residences in a supervised environment.

80 Scored Items - 210 minutes - 75% Correct to Pass
Non-Scored Items - 15 Minutes

Topic Information	# of Items
1. General Knowledge a. Permits and Inspections b. Preservation of Structural Integrity c. Needs Analysis and Estimate	4
2. General Electrical Knowledge a. Voltage, Current, and Resistance in Series, Parallel, and Combination Circuits b. Power Used in a Circuit c. Power Lost (called Heat Lost) in Any Circuit d. Fundamental AC Theory e. Fundamental Three-phase AC Theory f. Cost of Power Used in a Circuit g. System Troubleshooting and Testing h. Use of the National Electrical Codebook i. Understanding and Application of Definitions Used by the NEC j. Temporary Wiring k. Elevators and Escalators	12
3. Electrical Installation Requirements a. Approved Methods of Installation of Electrical Equipment b. Approved Methods of Installation of Electrical Equipment in Excess of 600 volts	10
4. Services, Feeders, and Branch Circuits a. Services b. Voltage Drop for Branch Circuits or Feeders c. Services in Excess of 600 volts d. Feeders e. Outside Branch Circuits and Feeders f. Branch Circuits g. Space-heating, Snow-melting and Pipe-heating Circuits h. Air-conditioning and Refrigeration Equipment	10
5. Overcurrent Protection a. NEC Overcurrent Protection Requirements	6
6. Grounding and Bonding a. General Requirements b. Grounding Electrode Conductors c. Equipment Grounding Conductors	8
7. Conductors and Cables a. Install Underground Conductors and Cables b. Perform Vertical Installations c. Select Conductor d. Armored Cable, Type AC e. Metal-clad Cable, Type MC f. Nonmetallic-sheathed Cable, Types NM, NMC, NMS g. Service Entrance Cables, Types SE and USE h. Underground Feeder and Branch Circuit Cable, Type UF i. Mineral Insulated, Type MI j. Flat Cable Assemblies, Type FC, and Flat Conductor Cable, Type FCC k. Medium Voltage Cable, Type MV	6



8.	Raceways and Boxes a. General Raceway Requirements b. General Box Requirements c. Pull Boxes and Conduit Fittings d. Type RMC (Rigid Metal Conduit) e. Type EMT (Electric Metallic Conduit) f. Type IMC (Intermediate Metal Conduit) g. Type RNC (Rigid Nonmetallic Conduit) h. Type FMC (Flexible Metal Conduit) i. Type LFMC (Liquid-tight Flexible Metal Conduit) j. Type FMT (Flexible Metallic Tubing) k. Type HDPE (High-density Polyethylene Conduit) l. Type NUCC (Nonmetallic Underground Conduit with Conductors) m. Type LFNC (Liquid-tight Flexible Nonmetallic Conduit) n. Area of Raceways and Number of Conduct (Conduit Fill) o. Outlet, Device, Pull, and Junction Boxes p. Box Volume and Fill q. Auxiliary Gutters, Busways, Concrete, and Nonconcrete Raceways r. Metal and Nonmetallic Wireways s. Surface Metal and Nonmetallic Raceways t. Underfloor Raceways u. Cabletrays	6
9.	Special Occupancies and Equipment (Including Swimming Pools) a. Wiring of Mobile Home, Mobile Home Parks, RVs, and RV Parks b. Required Wiring to Swimming Pools, Fountains, and Hot Tubs	4
10.	Low Voltage, Alarms, Signaling Systems, and Communications a. Remote Control or Signaling Circuits b. Communication Circuits c. Equipment Operating at 50 volts or Less d. Fiber Optic e. Photovoltaics f. Remote Control g. Fire Alarms h. Circuit Wiring for Emergency Systems i. Communications Systems Wiring	6
11.	Lighting and Signs a. Fixtures Installation b. Fixtures Grounding c. Fixture Wiring d. Fluorescent Fixtures e. Fixture Construction Requirements f. Recessed Fixtures g. Lighting Systems that Operate at Less Than 30 volts	4
12.	Safety a. Job Site Sanitation b. Responsibility for Providing Personal Protective Equipment c. Excavation Safety d. Emergency Action Plans e. Safety Training Requirements f. Ventilation g. First Aid Kit Requirements h. Use of Personal Protective Equipment i. Signs, Signals, and Barricades	4

	j. Tools and Equipment k. Ladders l. Workplace Illumination m. Scaffolds n. Requirements for Work Around Toxic Materials o. Material Cleanup and Disposal p. Material Safety Data Sheets (MSDS) q. Handling and Storing Materials r. Fall Protection
--	--

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REFINERY ELECTRICAL JOURNEYMAN

SCOPE OF WORK

100 Scored Items - 240 minutes - 75% Correct to Pass

Topic Information	# of Items
1. General Electrical Knowledge a. Permits and Inspections b. Preservation of Structural Integrity c. Needs Analysis and Estimate d. Voltage, Current, and Resistance in Series, Parallel, and Combination Circuits e. Power Used in a Circuit f. Power lost (called Heat Lost) in Any Circuit g. Fundamental AC Theory h. Fundamental Three-phase AC Theory i. Cost of Power Used in a Circuit j. Troubleshooting and Test Systems k. National Electrical Codebook l. Definitions Used by the NEC m. Temporary Wiring n. Cranes and Hoists o. Elevators and Escalators	10
2. Electrical Installation Requirements a. Approved Methods of Installation of Electrical Equipment b. Approved Methods of Installation of Electrical Equipment in Excess of 600 volts	4
3. Services, Feeders, and Branch Circuits a. Services b. Voltage Drop for Branch Circuits or Feeders c. Services in Excess of 600 volts d. Feeders e. Outside Branch Circuits and Feeders f. Branch Circuits g. Space-heating, Snow-melting, and Pipe-heating Circuits h. Air-conditioning and Refrigeration Equipment	6
4. Overcurrent Protection a. NEC Overcurrent Protection Requirements	6
5. Grounding and Bonding a. General Requirements b. Required Sizes of Grounding Electrode Conductors c. Required Sizes of Equipment Grounding Conductors	10
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	k. Medium Voltage Cable, Type MV	
7.	Raceways and Boxes a. General Raceway Requirements b. General Box Requirements c. Pull Boxes d. Conduit Fittings e. Type RMC (Rigid Metal Conduit) f. Type EMT (Electric Metallic Conduit) g. Type IMC (Intermediate Metal Conduit) h. Type RNC (Rigid Nonmetallic Conduit) i. Type FMC (Flexible Metal Conduit) j. Type LFMC (Liquid-tight Flexible Metal Conduit) k. Type FMT (Flexible Metallic Tubing) l. Type HDPE (High-density Polyethylene Conduit) m. Type NUCC (Nonmetallic Underground Conduit with Conductors) n. Type LFNC (Liquid-tight Flexible Nonmetallic Conduit) o. Area of Raceway and Number of Conduct (Conduit Fill) p. Outlet, Device, Pull, and Junction Boxes q. Box Volume and Fill r. Auxiliary Gutters, Busways, Concrete and Nonconcrete Raceways s. Metal and Nonmetallic Wireways t. Surface Metal and Nonmetallic Raceways u. Underfloor Raceways v. Cabletrays	6
8.	Low Voltage, Alarms, Signaling Systems, and Communications a. Remote Control or Signaling Circuits b. Communication Circuits c. Equipment Operating at 50 volts or Less d. Fiber Optics e. Photovoltaics f. Remote Controls g. Fire Alarms h. Circuit Wiring for an Emergency System i. Communications Systems Wiring	4
9.	Lighting and Signs a. Fixture Installation b. Fixture Grounding c. Fixture Wiring d. Fluorescent Fixtures e. Fixture Construction Requirements f. Recessed Fixtures g. Lighting Systems that Operate at Less Than 30 volts h. Neon Lighting and Electric Signs	4
10.	Safety a. Job Site Sanitation b. Responsibility for Providing Personal Protective Equipment c. Excavation Safety d. Emergency Action Plans e. Safety Training Requirements f. Ventilation g. First Aid Kit Requirements h. Use of Personal Protective Equipment i. Signs, Signals, and Barricades j. Tools and Equipment k. Ladders l. Workplace Illumination	5

	<ul style="list-style-type: none"> m. Scaffolds n. Requirements for Work Around Toxic Materials o. Material Cleanup and Disposal p. Material Safety Data Sheets (MSDS) q. Handling and Storing Materials r. Fall Protection 	
11.	Motors and Transformers <ul style="list-style-type: none"> a. Motors Used in Dwellings b. Motor Branch Circuits in Industrial and Commercial Locations c. Feeder Transformers d. Use of Transformers 	4
12.	Hazardous Locations <ul style="list-style-type: none"> a. Hazardous Location Classifications b. Hazardous Materials c. Equipment used in Hazardous Locations d. Ventilation and Seals e. Underground Wiring f. Fuel Dispensing Location Requirements 	35

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OR
Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI, with latest available amendments, 866-589-3088, <http://www.psionlinestore.com>
- *Ugly's Electrical References, George V. Hart, 2008, 2011, or 2014 edition, Jones and Bartlett, (800) 832-0034, www.uglys.net*
- *Hazardous Locations, 2005, International Association of Electrical Inspectors, (800) 786-4234, www.iaei.org*

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MECHANICAL BUSINESS AND LAW

# of Questions	Passing %	Passing (Raw)	Time Allowed
50	70	35	120 minutes

Topic Information	# of Items
1. Bidding and Estimating	10
<ul style="list-style-type: none"> a. General Estimating b. Bid 	
2. Project Management and Supervision	7
<ul style="list-style-type: none"> a. General Project Oversight b. Oversee Budget c. Oversee Quality Control d. Oversee Materials Control e. Manage Jobsite Safety f. Schedule g. Potentially Hazardous Materials h. Environmental Protection i. Submittals and Reports j. Ethics k. Liens 	
3. Contracts	5
<ul style="list-style-type: none"> a. Terminology b. Required Elements/Components c. Contract Types d. Change Orders e. Standardized Documents f. Interpretation g. Warranties h. Documents/Inclusions i. Other Obligations 	
4. Financial	8
<ul style="list-style-type: none"> a. Business Organization Characteristics, Advantages, and Disadvantages b. Business Start-up c. Accounting method d. Cash Flow Terminology e. Accounts Receivable f. Accounts Payable g. Balance Sheet h. Income Statement i. Taxes on Company Income j. Obtaining Financing k. Checking Account l. Financial Ratios 	
5. Labor and Personnel	5
<ul style="list-style-type: none"> a. ADA b. Labor Standards c. Requirements for Non-citizens and/or Non-residents d. Workers' Compensation e. Federal or State OSHA f. New Hires g. Personnel Record Keeping h. Other Requirements 	
6. Risk Management	4
<ul style="list-style-type: none"> a. Insurance b. Bonds 	



7.	Payroll and Payroll Taxes a. Taxes b. Forms and Due Dates	5
8.	Licensing Requirements a. Required Insurance/Bonds b. Renewal	6

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This examination is OPEN BOOK.

The following reference materials are allowed in the examination center:

- *State of Oklahoma, Construction Industries Board, Unofficial Administrative Rules & Courtesy Exam Study Aids Book*, current edition (available at the Construction Industries Board Office - no fee).
- *Oklahoma Mechanical Licensing Act*, Oklahoma Statutes, Title 59, Chapter 43A, Oklahoma Construction Industries Board, 2401 N.W. 23rd Street, Suite 2F, Oklahoma City, OK 73107, www.ok.gov/cib
- *Oklahoma Mechanical Industry Regulations*, Oklahoma Administrative Code, Title 158, Chapter 50, Oklahoma Construction Industries Board, 2401 N.W. 23rd Street, Suite 2F, Oklahoma City, OK 73107, www.ok.gov/cib
- *Oklahoma Fine Schedule of the Construction Industries Board*, Oklahoma Administrative Code, Title 158, Chapter 10, Oklahoma Construction Industries Board, 2401 N.W. 23rd Street, Suite 2F, Oklahoma City, OK 73107, www.ok.gov/cib
- *Oklahoma Lien Law*, Oklahoma Statutes, Title 42, Chapter 3, Oklahoma Construction Industries Board, 2401 N.W. 23rd Street, Suite 2F, Oklahoma City, OK 73107, www.ok.gov/cib
- *Contractors' Guide to Business, Law and Project Management*, Basic 11th or 12th Edition, National Association of State Contractors Licensing Agencies (NASCLA), 23309 N. 17th Drive, Phoenix, Arizona 85027, Telephone: (623) 587-9519, Fax: (623) 587-9625, www.nascla.org. **Only the 12th Edition may be used after 7/1/2018.**
- Oklahoma Workers' Compensation Act, Oklahoma Statutes, Title 85A, Chapter 1, Oklahoma Construction Industries Board, 2401 N.W. 23rd Street, Suite 2F, Oklahoma City, OK 73107, www.ok.gov/cib
OR
Oklahoma Workers' Compensation Act Statutory Excerpts, Oklahoma Statutes, Title 85A, Chapter 1, Oklahoma Construction Industries Board, 2401 N.W. 23rd Street, Suite 2F, Oklahoma City, OK 73107, www.ok.gov/cib

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NATURAL GAS CONTRACTOR

SCOPE OF WORK

Tests the candidate's knowledge on the installation, repair, alteration or extension of gas piping and gas mains.

# of Questions	Passing %	Passing (Raw)	Time Allowed
40	70	28	120 minutes

Topic Information		# of Items
1.	General Fuel Gas Piping -- Knowledge, Definitions, and Regulations a. Testing and Inspection b. Pipe Material Properties and Requirements	10
2.	Pipe Sizing	12
3.	Pipe Installation a. Indoor and Outdoor Installation Requirements b. Gas Pressure Regulators c. Structural Safety d. Hangers and Supports e. Direction Changes f. Concealed Locations g. Joints and Connections h. Valves and Controls i. Outlets j. Drip Legs and Sediment Traps k. Piping Protection	15
4.	Safety a. Sanitation b. Contractor Responsibilities c. Excavation Safety d. Ventilation and Confined Space e. Safety Training f. First Aid Kits g. PPE h. Signs, Signals and Barricades i. Fall Protection j. Ladders and Scaffolds k. Tools and Equipment l. MSDS	3

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The following reference materials are allowed in the examination center:

- *International Fuel Gas Code, 2015 edition, International Code Council, 5203 Leesburg Pike, Suite 600, Falls Church, VA 22041, (800) 786-4452, www.iccsafe.org, with Oklahoma Revisions http://ok.gov/oubcc/Codes_&_Rules/Adopted_Building_Codes/*
- *Code of Federal Regulations - 29 CFR Part 1926 (OSHA), with latest available amendments, 866-512-1800, <http://www.access.gpo.gov/nara/cfr/cfr-table-search.html#page1>*
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Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI, with latest available amendments, 866-589-3088, <http://www.psionlinestore.com>

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NATURAL GAS JOURNEYMAN

SCOPE OF WORK

Tests the candidate's knowledge on the installation, repair, alteration or extension of gas piping and gas mains.

# of Questions	Passing %	Passing (Raw)	Time Allowed
30	70	21	90 minutes

Topic Information		# of Items
1.	General Fuel Gas Piping -- Knowledge, Definitions, and Regulations a. Testing and Inspection b. Pipe Material Properties and Requirements	8
2.	Pipe Sizing	4
3.	Pipe Installation a. Indoor and Outdoor Installation Requirements b. Gas Pressure Regulators c. Structural Safety d. Hangers and Supports e. Direction Changes f. Concealed Locations g. Joints and Connections h. Valves and Controls i. Outlets j. Drip Legs and Sediment Traps k. Piping Protection	15
4.	Safety a. Excavations b. Ventilation and Confined Space c. PPE d. Signs, Signals and Barricades e. Fall Protection f. Ladders and Scaffolds g. Tools and Equipment h. MSDS	3

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- *Code of Federal Regulations - 29 CFR Part 1926 (OSHA)*, with latest available amendments, 866-512-1800, <http://www.access.gpo.gov/nara/cfr/cfr-table-search.html#page1>
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PROCESS PIPING CONTRACTOR

SCOPE OF WORK

Tests the candidate's knowledge on the installation, repair, alteration or extension of the piping and tubing which conveys liquids or gases which is used directly in research, laboratory, or production processes.

# of Questions	Passing %	Passing (Raw)	Time Allowed
40	70	28	120 minutes

Topic Information	# of Items
1. General Knowledge and Definitions	6
2. Estimating and Plan Reading a. Plan Reading b. Offset Calculations c. Material Estimates	7
3. Pipe Materials, Uses, and Properties a. Material Properties and Selection b. Pipe Sizing	5
4. Piping Installation and Fitting a. Indoor and Outdoor Piping b. Pipe Welding c. Pipe Brazing and Soldering d. Mechanical Joints	8

	e. Threaded Joints f. Compression Fittings g. Chemical Adhesives h. Tube Bending i. System Testing j. Line Labeling	
5.	Hangers and Supports a. Measure and Install Pipe Supports	5
6.	Valves and Controls a. Valve Selection b. Valve and Control Installation c. Maintenance and Troubleshooting	6
7.	Safety a. Contractor Responsibilities b. Safety Training c. Ventilation and Confined Space d. First Aid Kits e. Personal Protective Equipment (PPE) f. Material Safety Data Sheets (MSDS) g. Toxic Materials h. Fall Protection i. Lockout/Tagout j. Ladders and Scaffolds	3

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OR
Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI, with latest available amendments, 866-589-3088, <http://www.psiolinestore.com>
- *Facility Piping Systems Handbook*, Second Edition, 2002, McGraw-Hill Publishing, Inc., PO Box 182604, Columbus, OH 43272, (800) 338-3987, www.mhprofessional.com
- *International Mechanical Code*, 2015 edition, International Code Council, 5203 Leesburg Pike, Suite 600, Falls Church, VA 22041, (800) 786-4452, www.iccsafe.org, with Oklahoma Revisions http://ok.gov/oubcc/Codes_&_Rules/Adopted_Building_Codes/
- *Mathematics for Plumbers and Pipefitters*, Lee Smith, 8th Edition, 2013, www.cengage.com



- *ASME A13.1: Scheme for the Identification of Piping Systems*, 2007, American Society of Mechanical Engineers (ASME), Three Park Avenue, New York, NY 10065, (800) 843-2763, www.asme.org
- *ASME B31.3-2004: Process Piping*, 2004, American Society of Mechanical Engineers (ASME), Three Park Avenue, New York, NY 10065, (800) 843-2763, www.asme.org

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6.	Valves and Controls a. Valve Selection b. Valve and Control Installation c. Maintenance and Troubleshooting	6
7.	Safety a. Ventilation and Confined Space b. Personal Protective Equipment (PPE) c. Material Safety Data Sheets (MSDS) d. Toxic Materials e. Fall Protection f. Lockout/Tagout g. Ladders and Scaffolds	3

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- *International Mechanical Code*, 2015 edition, International Code Council, 5203 Leesburg Pike, Suite 600, Falls Church, VA 22041, (800) 786-4452, www.iccsafe.org, with Oklahoma Revisions http://ok.gov/oubcc/Codes_&_Rules/Adopted_Building_Codes/
- *Mathematics for Plumbers and Pipefitters*, Lee Smith, 8th Edition, 2013, www.cengage.com
- *ASME A13.1: Scheme for the Identification of Piping Systems*, 2007, American Society of Mechanical Engineers (ASME), Three Park Avenue, New York, NY 10065, (800) 843-2763, www.asme.org

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PROCESS PIPING JOURNEYMAN

SCOPE OF WORK

Tests the candidate's knowledge on the installation, repair, alteration or extension of the piping and tubing which conveys liquids or gases which is used directly in research, laboratory, or production processes only while in the employ of a process piping contractor.

# of Questions	Passing %	Passing (Raw)	Time Allowed
40	70	28	120 minutes

Topic Information	# of Items
1. General Knowledge and Definitions	6
2. Estimating and Plan Reading a. Plan Reading b. Offset Calculations c. Material Estimates	7
3. Pipe Materials, Uses, and Properties a. Material Properties and Selection b. Pipe Sizing	5
4. Piping Installation and Fitting a. Indoor and Outdoor Piping b. Pipe Welding c. Pipe Brazing and Soldering d. Mechanical Joints e. Threaded Joints f. Compression Fittings g. Chemical Adhesives h. Tube Bending i. System Testing j. Line Labeling	8
5. Hangers and Supports a. Measure and Install Pipe Supports	5



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	h. Lockout/Tagout
	i. MSDS

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The following reference materials are allowed in the examination center:

SHEET METAL CONTRACTOR

SCOPE OF WORK

Those who are qualified to manufacture, assemble, cast, cut, shape, forge, fabricate, weld, repair, recondition, adjust and install sheet rolled metal of any kind or combination and all other air-conveyor systems and air handling systems regardless of materials used, including all equipment and all reinforcements in connection therewith.

# of Questions	Passing %	Passing (Raw)	Time Allowed
60	70	42	120 minutes

Topic Information	# of Items
1. General Knowledge	13
a. Tools and Equipment	
b. Materials	
c. Welding	
d. Blueprints and Plan Reading	
e. Air Properties and Behavior	
f. Testing, Adjusting and Balancing (TAB)	
2. Duct Sizing, Design, and Hanging and Support Requirements	6
a. Duct Sizing	
b. Duct Design	
c. Hangers and Supports	
3. Duct Fabrication and Installation	13
a. Rectangular Metal Ducts	
b. Oval and Flexible Metal Ducts	
c. Fiberglass Ducts	
d. Duct Accessories and Exterior Components	
4. Plenums	6
5. Appliance Venting and Combustion Air	5
a. Venting and Combustion Air Sizing	
b. Clearance to Combustibles	
c. Equipment Installation	
d. Vent and Combustion Air Supply Termination	
6. Ventilation and Exhaust Devices	14
a. Device Selection and Installation	
b. Exhaust Ducts	
c. Exhaust System Terminations	
d. Exhaust Fans	
e. Auxiliary Equipment	
f. Solid Fuel Systems	
g. Downdraft Appliance Ventilation	
7. Safety	3
a. Contractor Responsibilities	
b. Safety Training	
c. First Aid Kits	
d. Personal Protective Equipment (PPE)	
e. Signs, Signals, and Barricades	
f. Ladders	
g. Fall Protection	

- *ACCA Ductulator* (Duct Slide Rule), Air Conditioning Contractors of America (ACCA), 2800 Shirlington Road, Suite 300, Arlington, VA 22206, (703) 575-4477, www.acca.org
- *International Mechanical Code*, 2015 edition, International Code Council, 5203 Leesburg Pike, Suite 600, Falls Church, VA 22041, (800) 786-4452, www.iccsafe.org, with Oklahoma Revisions http://ok.gov/oubcc/Codes_&_Rules/Adopted_Building_Codes/
- *Fibrous Glass Duct Construction Standards*, Fifth Edition, 2002, North American Insulation Manufacturers Association (NAIMA), 44 Canal Center Plaza, Suite 310, Alexandria, VA 22314, (703) 684-0084, www.naima.org
- *Code of Federal Regulations - 29 CFR Part 1926 (OSHA)*, with latest available amendments, 866-512-1800, <http://www.access.gpo.gov/nara/cfr/cfr-table-search.html#page1> -OR- *Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI*, with latest available amendments, 866-589-3088, <http://www.psionlinestore.com>
- *HVAC Duct Construction Standards, Metal and Flexible*, 2005, 3rd edition, Sheet Metal and Air Conditioning Contractors' National Association, Inc., (703) 803-2980, www.smacna.org
- *Sheet Metal*, 1995 Edition, American Technical Publishers (ATP), 1155 West 175th Street, Homewood, IL 60430-4600, (800) 323-3471, www.americantech.net
- *Modern Refrigeration and Air Conditioning*, Althouse, Turnquist, Bracciano, 19th or 20th edition, Goodheart-Willcox, www.g-w.com
OR
Refrigeration & Air Conditioning Technology, Fifth Edition, 2005 Delmar Publishing/Thomson Learning, PO Box 6904, Florence, KY 41022, (800) 347-7707, www.delmarlearning.com

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SHEET METAL JOURNEYMAN

SCOPE OF WORK

Those who are qualified to fabricate, install, repair, alter, or extend sheet metal work while employed or supervised by a sheet metal contractor.

# of Questions	Passing %	Passing (Raw)	Time Allowed
50	70	35	120 minutes

Topic Information	# of Items
1. General Knowledge a. Tools and Equipment b. Materials c. Welding d. Blueprints and Plan Reading e. Air Properties and Behavior f. Testing, Adjusting and Balancing (TAB)	12
2. Duct Sizing, Design, and Hanging and Support Requirements a. Duct Sizing b. Duct Design c. Hangers and Supports	4
3. Duct Fabrication and Installation a. Rectangular Metal Ducts b. Oval and Flexible Metal Ducts c. Fiberglass Ducts d. Duct Accessories and Exterior Components	10
4. Plenums	4
5. Appliance Venting and Combustion Air a. Venting and Combustion Air Sizing b. Clearance to Combustibles c. Equipment Installation d. Vent and Combustion Air Supply Termination	5
6. Ventilation and Exhaust Devices a. Device Selection and Installation b. Exhaust Ducts c. Exhaust System Terminations d. Exhaust Fans e. Auxiliary Equipment f. Solid Fuel Systems g. Downdraft Appliance Ventilation	12
7. Safety a. Contractor Responsibilities b. Safety Training c. First Aid Kits d. Personal Protective Equipment (PPE) e. Signs, Signals and Barricades f. Ladders g. Fall Protection h. Lockout/Tagout i. MSDS	3

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- *Fibrous Glass Duct Construction Standards*, Fifth Edition, 2002, North American Insulation Manufacturers Association (NAIMA), 44 Canal Center Plaza, Suite 310, Alexandria, VA 22314, (703) 684-0084, www.naima.org
- *HVAC Duct Construction Standards*, Metal and Flexible, 2005, 3rd edition, Sheet Metal and Air Conditioning Contractors' National Association, Inc., (703) 803-2980, www.smacna.org
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Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI, with latest available amendments, 866-589-3088, <http://www.psionlinestore.com>
- *Sheet Metal*, 1995 Edition, American Technical Publishers (ATP), 1155 West 175th Street, Homewood, IL 60430-4600, (800) 323-3471, www.americantech.net
- *Modern Refrigeration and Air Conditioning*, Althouse, Turnquist, Bracciano, 19th or 20th edition, Goodheart-Willcox, www.g-w.com
OR
Refrigeration & Air Conditioning Technology, Fifth Edition, 2005 Delmar Publishing/Thomson Learning, PO Box 6904, Florence, KY 41022, (800) 347-7707, www.delmarlearning.com

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HVACR CONTRACTOR, LIMITED

SCOPE OF WORK

Tests a candidate's knowledge of the installation, maintenance, repair, fabrication, alteration or extension of air conditioning, refrigeration, heating, and ventilation, including ductwork, within a complete system limited to twenty-five tons cooling and five-hundred thousand BTU heating, and related appurtenances, apparatus, piping vessels, ducts and insulation.

# of Questions	Passing %	Passing (Raw)	Time Allowed
80	70	56	210 minutes

Topic Information	# of Items
1. Electrical Knowledge and Controls a. General Electrical Theory and Knowledge b. Motors c. D/C Circuits d. A/C Circuits e. Controls	15
2. Natural Gas a. Piping Valves b. Connectors c. Accessories d. Hangers and Supports e. Sizing f. Materials g. Testing	12
3. Air Distribution Systems a. Duct Definitions b. Sizing and Design c. Duct Assembly and Installation d. Hangers and Supports e. Duct Materials and Shapes f. Duct Insulation g. Fire and Smoke Control h. Hoods and Exhaust Systems i. Testing and Balancing j. Ventilation Requirements k. Plans and Symbols	15
4. Refrigeration and Air Conditioning Systems a. Theory b. Refrigerants c. Equipment Sizing and Design d. Equipment and Components e. Piping f. Equipment Installation g. System Operation, Troubleshooting, and Maintenance	20

5.	Heating Systems a. Heating Theory and Types b. Combustion Air c. Vents and Chimneys d. Equipment Sizing e. Heating Equipment f. Equipment Installation g. System Operation, Troubleshooting, and Maintenance h. Hydronics and Hydronic Piping	15
6.	Safety a. Responsibility for Providing Personal Protective Equipment to Employees b. Safety Training Requirements c. Adequate Ventilation for Employees d. First Aid Kit Requirements e. Use of Personal Protective Equipment f. Material Safety Data Sheets (MSDS) g. Requirements for Work Around Toxic Materials h. Fall Protection i. Lockout/Tagout Procedures j. Ladders k. Scaffolds	3

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Candidates may use a silent, non-printing, non-programmable calculator in the examination center. Candidates will also be provided with a magnifying glass upon request.

This examination is OPEN BOOK.

The following reference materials are allowed in the examination center:

- *ACCA Ductulator* (Duct Slide Rule), Air Conditioning Contractors of America (ACCA), 2800 Shirlington Road, Suite 300, Arlington, VA 22206, (703) 575-4477, www.acca.org
- *International Mechanical Code*, 2015 edition, International Code Council, 5203 Leesburg Pike, Suite 600, Falls Church, VA 22041, (800) 786-4452, www.iccsafe.org, with Oklahoma Revisions http://ok.gov/oubcc/Codes_&_Rules/Adopted_Building_Codes/
- *International Fuel Gas Code*, 2015 edition, International Code Council, 5203 Leesburg Pike, Suite 600, Falls Church, VA 22041, (800) 786-4452, www.iccsafe.org, with Oklahoma Revisions http://ok.gov/oubcc/Codes_&_Rules/Adopted_Building_Codes/
- *Modern Refrigeration and Air Conditioning*, Althouse, Turnquist, Bracciano, 19th or 20th edition, Goodheart-Willcox, www.g-w.com
OR



Refrigeration & Air Conditioning Technology, Fifth Edition, 2005 Delmar Publishing/Thomson Learning, PO Box 6904, Florence, KY 41022, (800) 347-7707, www.delmarlearning.com

- *Manual J - Residential Load Calcs*, reprinted 2006, Eighth Full Edition, Air Conditioning Contractors of America (ACCA), 2800 Shirlington Road, Suite 300. Arlington, VA 22206, (703) 575-4477, www.acca.org
- *Mathematics for Plumbers and Pipefitters*, Lee Smith, 8th Edition, 2013, www.cengage.com
- *Code of Federal Regulations - 29 CFR Part 1926 (OSHA)*, with latest available amendments, 866-512-1800, <http://www.access.gpo.gov/nara/cfr/cfr-table-search.html#page1>
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Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI, with latest available amendments, 866-589-3088, <http://www.psionlinestore.com>

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HVACR JOURNEYMAN LIMITED

SCOPE OF WORK

Tests a candidate's knowledge of the installation, maintenance, repair, fabrication, alteration or extension of air conditioning, refrigeration, heating, and ventilation, including ductwork, within a complete system limited to twenty-five tons cooling and five-hundred thousand BTU heating, and related appurtenances, apparatus, piping vessels, ducts and insulation while employed or supervised by a refrigeration contractor.

# of Questions	Passing %	Passing (Raw)	Time Allowed
60	70	42	180 minutes

Topic Information		# of Items
1.	Electrical Knowledge and Controls a. General Electrical Theory and Knowledge b. Motors c. D/C Circuits d. A/C Circuits e. Controls	15

2.	Natural Gas a. Piping Valves b. Connectors c. Accessories d. Hangers and Supports e. Sizing f. Materials g. Testing h. Installation and Assembly	9
3.	Air Distribution Systems a. Duct Definitions b. Sizing and Design c. Duct Assembly and Installation d. Hangers and Supports e. Duct Materials and Shapes f. Duct Insulation g. Fire and Smoke Control h. Hoods and Exhaust Systems i. Testing and Balancing j. Ventilation Requirements k. Plans and Symbols	10
4.	Refrigeration and Air Conditioning Systems a. Theory b. Refrigerants c. Equipment Sizing and Design d. Equipment and Components e. Piping f. Equipment Installation g. System Operation, Troubleshooting, and Maintenance	13
5.	Heating Systems a. Heating Theory and Types b. Combustion Air c. Vents and Chimneys d. Equipment Sizing e. Heating Equipment f. Equipment Installation g. System Operation, Troubleshooting, and Maintenance h. Hydronics and Hydronic Piping	10
6.	Safety a. Responsibility for Providing Personal Protective Equipment to Employees b. Safety Training Requirements c. Adequate Ventilation for Employees d. First Aid Kit Requirements e. Use of Personal Protective Equipment f. Material Safety Data Sheets (MSDS) g. Requirements for Work Around Toxic Materials h. Fall Protection i. Lockout/Tagout Procedures j. Ladders k. Scaffolds	3

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- *International Mechanical Code*, 2015 edition, International Code Council, 5203 Leesburg Pike, Suite 600, Falls Church, VA 22041, (800) 786-4452, www.iccsafe.org, with Oklahoma Revisions <http://ok.gov/oubcc/Codes & Rules/Adopted Building Codes/>
- *International Fuel Gas Code*, 2015 edition, International Code Council, 5203 Leesburg Pike, Suite 600, Falls Church, VA 22041, (800) 786-4452, www.iccsafe.org, with Oklahoma Revisions <http://ok.gov/oubcc/Codes & Rules/Adopted Building Codes/>
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Refrigeration & Air Conditioning Technology, Fifth Edition, 2005 Delmar Publishing/Thomson Learning, PO Box 6904, Florence, KY 41022, (800) 347-7707, www.delmarlearning.com
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HVACR CONTRACTOR UNLIMITED

SCOPE OF WORK

Tests a candidate's knowledge of the installation, maintenance, repair, fabrication, alteration or extension of air conditioning, refrigeration, heating, and ventilating, including ductwork within a complete system unlimited in horsepower or tons, and related appurtenances, piping vessels, ducts and insulation.

# of Questions	Passing %	Passing (Raw)	Time Allowed
90	70	63	240 minutes

Topic Information	# of Items
1. Electrical Knowledge and Controls a. General Electrical Theory and Knowledge b. Motors c. D/C Circuits d. A/C Circuits e. Controls	15
2. Natural Gas a. Piping Valves b. Connectors c. Accessories d. Hangers and Supports e. Sizing f. Materials g. Testing	12
3. Air Distribution Systems a. Duct Definitions b. Sizing and Design c. Duct Assembly and Installation d. Hangers and Supports e. Duct Materials and Shapes f. Duct Insulation g. Fire and Smoke Control h. Hoods and Exhaust Systems i. Testing and Balancing j. Ventilation Requirements k. Plans and Symbols	25
4. Refrigeration and Air Conditioning Systems a. Theory b. Refrigerants c. Equipment Sizing and Design d. Equipment and Components e. Piping f. Equipment Installation g. System Operation, Troubleshooting, and Maintenance	20
5. Heating Systems a. Heating Theory and Types b. Combustion Air c. Vents and Chimneys d. Equipment Sizing e. Heating Equipment f. Equipment Installation g. System Operation, Troubleshooting, and Maintenance h. Hydronics and Hydronic Piping	15
6. Safety a. Responsibility for Providing Personal Protective Equipment to Employees b. Safety Training Requirements c. Adequate Ventilation for Employees d. First Aid Kit Requirements e. Use of Personal Protective Equipment f. Material Safety Data Sheets (MSDS) g. Requirements for Work Around Toxic Materials h. Fall Protection i. Lockout/Tagout Procedures j. Ladders k. Scaffolds	3



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- *Modern Refrigeration and Air Conditioning*, Althouse, Turnquist, Bracciano, 19th or 20th edition, Goodheart-Willcox, www.g-w.com
OR
Refrigeration & Air Conditioning Technology, Fifth Edition, 2005 Delmar Publishing/Thomson Learning, PO Box 6904, Florence, KY 41022, (800) 347-7707, www.delmarlearning.com
- *Manual N - Load Calculation for Small Commercial Buildings*, Fifth Edition, 2008, Air Conditioning Contractors of America (ACCA), 2800 Shirlington Road, Suite 300, Arlington, VA 22206, (703) 575-4477, www.acca.org
- *Mathematics for Plumbers and Pipefitters*, Lee Smith, 8th Edition, 2013, www.cengage.com
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HVACR JOURNEYMAN UNLIMITED

SCOPE OF WORK

Tests a candidate's knowledge of the installation, maintenance, repair, fabrication, alteration or extension of air conditioning, refrigeration, heating, and ventilating, including ductwork within a complete system unlimited in horsepower or tons, and related appurtenances, piping vessels, ducts and insulation while employed by a HVACR contractor.

# of Questions	Passing %	Passing (Raw)	Time Allowed
70	70	49	180 minutes

Topic Information	# of Items
1. Electrical Knowledge and Controls a. General Electrical Theory and Knowledge b. Motors c. D/C Circuits d. A/C Circuits e. Controls	15
2. Natural Gas a. Piping Valves b. Connectors c. Accessories d. Hangers and Supports e. Sizing f. Materials g. Testing h. Installation and Assembly	10
3. Air Distribution Systems a. Duct Definitions b. Sizing and Design c. Duct Assembly and Installation d. Hangers and Supports e. Duct Materials and Shapes f. Duct Insulation g. Fire and Smoke Control h. Hoods and Exhaust Systems i. Testing and Balancing j. Ventilation Requirements k. Plans and Symbols	16
4. Refrigeration and Air Conditioning Systems a. Theory b. Refrigerants c. Equipment Sizing and Design d. Equipment and Components e. Piping f. Equipment Installation g. System Operation, Troubleshooting, and Maintenance	16



5.	Heating Systems	10
	<ul style="list-style-type: none"> a. Heating Theory and Types b. Combustion Air c. Vents and Chimneys d. Equipment Sizing e. Heating Equipment f. Equipment Installation g. System Operation, Troubleshooting, and Maintenance h. Hydronics and Hydronic Piping 	
6.	Safety	3
	<ul style="list-style-type: none"> a. Responsibility for Providing Personal Protective Equipment to Employees b. Safety Training Requirements c. Adequate Ventilation for Employees d. First Aid Kit Requirements e. Use of Personal Protective Equipment f. Material Safety Data Sheets (MSDS) g. Requirements for Work Around Toxic Materials h. Fall Protection i. Lockout/Tagout Procedures j. Ladders k. Scaffolds 	

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- *Mathematics for Plumbers and Pipefitters*, Lee Smith, 8th Edition, 2013, www.cengage.com

REFRIGERATION CONTRACTOR

SCOPE OF WORK

Tests a candidate's knowledge of the operation, installation, maintenance, repair, fabrication, alteration or extension of refrigeration systems; including electrical components, piping, refrigerants, and refrigeration components.

# of Questions	Passing %	Passing (Raw)	Time Allowed
80	70	56	210 minutes

Topic Information	# of Items
1. Electrical Knowledge and Controls	20
<ul style="list-style-type: none"> a. General Electrical Theory and Knowledge b. Motors c. A/C and D/C Circuits d. Meters e. Controls f. Relays 	
2. Refrigerants	10
<ul style="list-style-type: none"> a. Refrigerant Types b. Refrigerant Systems c. Refrigerant Theory 	
3. Piping	5
<ul style="list-style-type: none"> a. Piping Supports b. Piping Materials and Sizes c. Piping Pressure Tests 	
4. Refrigeration Equipment and Components	20
<ul style="list-style-type: none"> a. Valves b. Compressors c. Condensers d. Evaporators e. Receivers f. Accumulators g. Expansion Devices h. Dryers 	



5.	Refrigeration Systems Operations a. Systems Troubleshooting b. Systems Operations c. System Installation, Maintenance, and Repair	20
6.	Safety a. Safety Training Requirements b. Ventilation Requirements c. First Aid Kit Requirements d. Use of Personal Protective Equipment e. Material Safety Data Sheets (MSDS) f. Requirements for Work Around Toxic Materials g. Lockout/Tagout Procedures h. Ladders	5

Post-It notes, are not allowed and must be removed from the reference before the exam will begin. If you download a reference from the Internet, it must be spiral bound or hole-punched and placed in a binder, or stapled in the left hand corner.

REFRIGERATION JOURNEYMAN

SCOPE OF WORK

Tests a candidate's knowledge of the operation, installation, maintenance, repair, fabrication, alteration or extension of refrigeration systems; including electrical components, piping, refrigerants, and refrigeration components while employed by a Refrigeration Contractor.

# of Questions	Passing %	Passing (Raw)	Time Allowed
60	70	42	150 minutes

REFERENCE LIST

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- *Modern Refrigeration and Air Conditioning*, Althouse, Turnquist, Bracciano, 19th or 20th edition, Goodheart-Willcox, www.g-w.com
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Topic Information	# of Items
1. Electrical Knowledge and Controls a. General Electrical Theory and Knowledge b. Motors c. A/C and D/C Circuits d. Meters e. Controls f. Relays	15
2. Refrigerants a. Refrigerant Types b. Refrigerant Systems c. Refrigerant Theory	5
3. Piping a. Piping Supports b. Piping Materials and Sizes c. Piping Pressure Tests	5
4. Refrigeration Equipment and Components a. Valves b. Compressors c. Condensers d. Evaporators e. Receivers f. Accumulators g. Expansion Devices h. Dryers	17
5. Refrigeration Systems Operations a. Systems Troubleshooting b. Systems Operations c. System Installation, Maintenance, and Repair	15
6. Safety a. Safety Training Requirements b. Ventilation Requirements c. First Aid Kit Requirements d. Use of Personal Protective Equipment e. Material Safety Data Sheets (MSDS) f. Requirements for Work Around Toxic Materials g. Lockout/Tagout Procedures h. Ladders	3



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LIMITED RESIDENTIAL JOURNEYMAN (MECHANICAL)

SCOPE OF WORK

A limited residential journeyman license entitles the licensee to install complete new systems in new construction for detached one or two family dwellings and multiple single family dwellings (townhouses) not more than three stories in height with a separate means of egress. Installations shall include 5-ton or less cooling systems and 150,000 Btu/h or less heating systems and related accessories such as humidifiers, filtering systems, kitchen vent hoods, exhaust fans and clothes

dryer vent exhausts for such dwellings. Such installations shall not include any fuel gas piping, welding, soldering, brazing or final connection of refrigerant lines or final connection of any electrical wiring permitted to be installed in accordance with Oklahoma statutes.

# of Questions	Passing %	Passing (Raw)	Time Allowed
40	70	28	100 minutes

Topic Information	# of Items
1. Duct Systems (metallic and nonmetallic)	9
2. Vents	3
3. Insulation	3
4. Clothes Dryer	3
5. Range Hoods	1
6. Clearances	3
7. Access	4
8. Appliance Installation	1
9. Restroom Exhaust Systems	1
10. Combustion Air	3
11. Piping	1
12. General Installation	3
13. SMACNA Symbols	3
14. Regulations	2

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This examination is OPEN BOOK.



The following reference materials are allowed in the examination center:

- *International Residential Code for One-and Two-Family Dwellings*, 2015 edition, International Code Council, 5203 Leesburg Pike, Suite 600, Falls Church, VA 22041, (800) 786-4452, www.iccsafe.org, with Oklahoma Revisions found at [http://ok.gov/oubcc/Codes & Rules/Adopted Building Codes](http://ok.gov/oubcc/Codes_&_Rules/Adopted_Building_Codes)
- *Oklahoma Mechanical Industry Regulations*, Oklahoma Administrative Code, Title 158, Chapter 50, 2004, Oklahoma Construction Industries Board, 2401 NW 23rd Street, Suite 2F, Oklahoma City, OK 73107, www.ok.gov/cib
- *SMACNA Symbols Sheet*, located under testing information, www.ok.gov/cib

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PLUMBING BUSINESS AND LAW

# of Questions	Passing %	Passing (Raw)	Time Allowed
50	75	37	120 minutes

Topic Information	# of Items
1. Bidding and Estimating a. General Estimating b. Bid	10
2. Project Management and Supervision a. General Project Oversight b. Oversee Budget c. Oversee Quality Control d. Oversee Materials Control e. Manage Jobsite Safety f. Schedule g. Potentially Hazardous Materials h. Environmental Protection i. Submittals and Reports j. Ethics k. Liens	7
3. Contracts a. Terminology b. Required Elements/Components c. Contract Types d. Change Orders e. Standardized Documents f. Interpretation g. Warranties h. Documents/Inclusions i. Other Obligations	5

4. Financial a. Business Organization Characteristics, Advantages, and Disadvantages b. Business Start-up c. Accounting Method d. Cash Flow Terminology e. Accounts Receivable f. Accounts Payable g. Balance Sheet h. Income Statement i. Taxes on Company Income j. Obtaining Financing k. Checking Account l. Financial Ratios	8
5. Labor and Personnel a. ADA b. Labor Standards c. Requirements for Non-citizens and/or Non-residents d. Workers' Compensation e. Federal or State OSHA f. New Hires g. Personnel Record Keeping h. Other Requirements	5
6. Risk Management a. Insurance b. Bonds	4
7. Payroll and Payroll Taxes a. Taxes b. Forms and Due Dates	5
8. Licensing Requirements a. Required Insurance/Bonds b. Renewal	6

REFERENCE LIST

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Candidates may use a silent, non-printing, non-programmable calculator in the examination center. Candidates will also be provided with a magnifying glass upon request.

This examination is OPEN BOOK.

The following reference materials are allowed in the examination center:

- *State of Oklahoma, Construction Industries Board, Unofficial Administrative Rules & Courtesy Exam Study Aids Book*, current edition (available at the Construction Industries Board Office - no fee).
- *Oklahoma Plumbing License Law of 1955*, Oklahoma Statutes, Title 59, Chapter 27, Oklahoma Construction Industries Board, 2401 N.W. 23rd Street, Suite 2F, Oklahoma City, OK 73107, www.ok.gov/cib
- *Oklahoma Plumbing Industry Regulations*, Oklahoma Administrative Code, Title 158, Chapter 30, Oklahoma Construction Industries Board, 2401 N.W. 23rd Street, Suite 2F, Oklahoma City, OK 73107, www.ok.gov/cib



- *Oklahoma Fine Schedule of the Construction Industries Board*, Oklahoma Administrative Code, Title 158, Chapter 10, Oklahoma Construction Industries Board, 2401 N.W. 23rd Street, Suite 2F, Oklahoma City, OK 73107, www.ok.gov/cib
- *Oklahoma Lien Law*, Oklahoma Statutes, Title 42, Chapter 3, Oklahoma Construction Industries Board, 2401 N.W. 23rd Street, Suite 2F, Oklahoma City, OK 73107, www.ok.gov/cib
- *Contractors' Guide to Business, Law and Project Management*, Basic 11th or 12th Edition, National Association of State Contractors Licensing Agencies (NASCLA), 23309 N. 17th Drive, Phoenix, Arizona 85027, Telephone: (623) 587-9519, Fax: (623) 587-9625, www.nascla.org. **Only the 12th Edition may be used after 7/1/2018.**
- Oklahoma Workers' Compensation Act, Oklahoma Statutes, Title 85A, Chapter 1, Oklahoma Construction Industries Board, 2401 N.W. 23rd Street, Suite 2F, Oklahoma City, OK 73107, www.ok.gov/cib
OR
Oklahoma Workers' Compensation Act Statutory Excerpts, Oklahoma Statutes, Title 85A, Chapter 1, Oklahoma Construction Industries Board, 2401 N.W. 23rd Street, Suite 2F, Oklahoma City, OK 73107, www.ok.gov/cib

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PLUMBING CONTRACTOR AND NATURAL GAS

SCOPE OF WORK

Installation, repair and maintenance or extension of any plumbing system, including sanitary drainage waste and vents, water supply, plumbing fixtures and roof drains and also install, maintain, or repair gas piping, appliances, vents, flues, tanks and other related appurtenances in a supervised environment.

# of Questions	Passing %	Passing (Raw)	Time Allowed
85	75	64	180 minutes

Topic Information		# of Items
1.	General Plumbing Knowledge and Regulations a. Head Pressure b. Pipe Joints	10

	<ul style="list-style-type: none"> c. Solvent Welded Pipe Joints d. Calculations of Area and Volume e. Calculations of Water Supply Friction Loss f. Permits and Inspections g. Job Costs h. Notches and Bore Holes in Structural Members i. Fire Integrity j. Pipe Offsets Test Systems k. Condensate Disposal Trenching, Excavation, and Backfill l. Fitting Identification 	
2.	Piping, Valves, and Control Valves a. PVC Piping and Connections b. CPVC Piping and Connections c. Galvanized Piping and Connections d. Copper Tubing and Connections e. Copper Piping and Connections f. Polyethylene Piping and Connections g. PEX Piping and Connections h. Underground Piping and Connections i. Cast Iron Piping and Connections j. Steel Piping and Connections k. Connecting Dissimilar Materials l. Valves and Control Valves	8
3.	Fixtures and Equipment a. Identify Minimum Plumbing Needs for Structures/Facilities b. Install Fixtures and Associated Equipment	8
4.	Water Supply a. Water Supply and Distribution Lines b. Protection of Potable Water Supply c. Backflow	10
5.	Drains and Sewers a. Drain and Sewer Pipe b. Building Sewers c. Sewer and Drain Cleanouts d. Sewage Ejectors and Sump Pumps e. Health Care Plumbing f. Drain and Waste Piping g. Storm Drainage	10
6.	Vents a. Vent Installation b. Developed Length	13
7.	Traps, Interceptors, Indirect, and Special Waste a. Traps b. Interceptors and Separators c. Indirect and Special Waste	5
8.	Isometric Analysis a. Isometric Drawings	7
9.	Fuel Gas a. Gas Distribution Pipe Sizing b. Gas Pressure Regulators c. Hangers and Supports d. Direction Changes e. Concealed Locations f. Joints and Connections g. Valves h. Location of Outlets i. Drip Leg and Sediment Traps j. Water Heaters and Other Appliances k. Confined Spaces l. Combustion Air m. Chimneys and Vents	10



	<ul style="list-style-type: none"> n. Permits and Inspections for Gas o. Cost Estimates for Gas p. Outdoor Gas Supply Piping q. Testing and Inspection of Gas Systems r. Pipe Material Requirements
10.	Safety <ul style="list-style-type: none"> a. Responsibility for Providing Personal Protective Equipment 4 b. Excavation Safety c. Employee Protection in Trenches and Excavations d. Safety Training Requirements e. Adequate Ventilation for Employees f. First Aid Kit Requirements g. Use of Personal Protective Equipment h. Signs, Signals, and Barricades As Required i. Tools and Equipment Requirements j. Ladder Use in Accordance with Requirements k. Workplace Illumination l. Scaffold Use in Accordance with Requirements m. Requirements for Work Around Toxic Materials n. Appropriate Material Cleanup and Disposal o. Material Safety Data Sheets (MSDS) p. Handling and Storing Materials q. Fall Protection

Candidates are responsible for bringing their own references to the examination center. Reference materials may be highlighted, underlined, and/or indexed prior to the examination session. References may not be written in prior to or during the examination session. Any candidate caught writing in the references during the examination will have the references confiscated and will be reported to the department. Furthermore, candidates are not permitted to bring in any additional papers with their approved references. Any additional materials will be removed from the references and confiscated. References may be tabbed/indexed with permanent tabs only. Temporary tabs, such as Post-It notes, are not allowed and must be removed from the reference before the exam will begin. If you download a reference from the Internet, it must be spiral bound or hole-punched and placed in a binder, or stapled in the left hand corner.

PLUMBING JOURNEYMAN AND NATURAL GAS

SCOPE OF WORK

Installation, repair and maintenance or extension of any plumbing system, including sanitary drainage waste and vents, water supply, plumbing fixtures and roof drains and also install, maintain, or repair gas piping, appliances, vents, flues, tanks and other related appurtenances in a supervised environment.

# of Questions	Passing %	Passing (Raw)	Time Allowed
85	75	64	180 minutes

REFERENCE LIST

The reference materials listed below were used to prepare the questions for this examination. The examination may also contain questions based on trade knowledge or general industry practices. Except for Code books, you can base your answers on later editions of references as they become available. For Code questions, the examinations will be based only on the edition of the Code book that is listed.

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This examination is OPEN BOOK.

The following reference materials are allowed in the examination center:

- *International Plumbing Code*, 2015 edition, International Code Council, 5203 Leesburg Pike, Suite 600, Falls Church, VA 22041, (800) 786-4452, www.iccsafe.org, with Oklahoma Revisions http://ok.gov/oubcc/Codes_&_Rules/Adopted_Building_Codes/
 - *International Fuel Gas Code*, 2015 edition, International Code Council, 5203 Leesburg Pike, Suite 600, Falls Church, VA 22041, (800) 786-4452, www.iccsafe.org, with Oklahoma Revisions http://ok.gov/oubcc/Codes_&_Rules/Adopted_Building_Codes/
 - *Mathematics for Plumbers and Pipefitters*, Lee Smith, 8th Edition, 2013, www.cengage.com
 - *Code of Federal Regulations - 29 CFR Part 1926 (OSHA)*, with latest available amendments, 866-512-1800, <http://www.access.gpo.gov/nara/cfr/cfr-table-search.html#page1>
- OR**
- *Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI*, with latest available amendments, 866-589-3088, <http://www.psionlinestore.com>

Topic Information	# of Items
1. General Plumbing Knowledge and Regulations <ul style="list-style-type: none"> a. Head Pressure b. Pipe Joints c. Solvent Welded Pipe Joints d. Calculations of Area and Volume e. Calculations of Water Supply Friction Loss f. Permits and Inspections g. Job Costs h. Notches and Bore Holes in Structural Members i. Fire Integrity j. Pipe Offsets Test Systems k. Condensate Disposal Trenching, Excavation, and Backfill l. Fitting Identification 	10
2. Piping, Valves, and Control Valves <ul style="list-style-type: none"> a. PVC Piping and Connections b. CPVC Piping and Connections c. Galvanized Piping and Connections d. Copper Tubing and Connections e. Copper Piping and Connections f. Polyethylene Piping Connections g. PEX Piping and Connections h. Underground Piping and Connections i. Cast Iron Piping and Connections j. Steel Piping and Connections k. Connecting Dissimilar Materials l. Valves and Control Valves 	8
3. Fixtures and Equipment <ul style="list-style-type: none"> a. Identify Minimum Plumbing Needs for Structures/Facilities b. Install Fixtures and Associated Equipment 	8
4. Water Supply <ul style="list-style-type: none"> a. Water Supply and Distribution 	10



	Lines b. Protection of Potable Water Supply c. Backflow	
5.	Drains and Sewers a. Drain and Sewer Pipe b. Building Sewers c. Sewer and Drain Cleanouts d. Sewage Ejectors and Sump Pumps e. Health Care Plumbing f. Drain and Waste Piping g. Storm Drainage	10
6.	Vents a. Vent Installation a. Developed Length	13
7.	Traps, Interceptors, Indirect, and Special Waste a. Traps a. Interceptors and Separators b. Indirect and Special Waste	5
8.	Isometric Analysis a. Isometric Drawings	7
9.	Fuel Gas a. Gas Distribution Pipe Sizing b. Gas Pressure Regulators c. Hangers and Supports d. Direction Changes e. Concealed Locations f. Joints and Connections g. Valves h. Location of Outlets i. Drip Leg and Sediment Traps j. Water Heaters and Other Appliances k. Confined Spaces l. Combustion Air m. Chimneys and Vents n. Permits and Inspections for Gas o. Cost Estimates for Gas p. Outdoor Gas Supply Piping q. Testing and Inspection of Gas Systems r. Pipe Material Requirements	10
10.	Safety a. Responsibility for Providing Personal Protective Equipment b. Excavation Safety c. Employee Protection in Trenches and Excavations d. Safety Training Requirements e. Adequate Ventilation for Employees f. First Aid Kit Requirements g. Use of Personal Protective Equipment h. Signs, Signals, and Barricades As Required i. Tools and Equipment Requirements j. Ladder Use in Accordance with Requirements k. Workplace Illumination l. Scaffold Use in Accordance with Requirements m. Requirements for Work Around Toxic Materials n. Appropriate Material Cleanup and Disposal o. Material Safety Data Sheets (MSDS) p. Handling and Storing Materials q. Fall Protection	4

industry practices. Except for Code books, you can base your answers on later editions of references as they become available. For Code questions, the examinations will be based only on the edition of the Code book that is listed.

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 - *International Fuel Gas Code*, 2015 edition, International Code Council, 5203 Leesburg Pike, Suite 600, Falls Church, VA 22041, (800) 786-4452, www.iccsafe.org, with Oklahoma Revisions http://ok.gov/oubcc/Codes_&_Rules/Adopted_Building_Codes/
 - *Mathematics for Plumbers and Pipefitters*, Lee Smith, 8th Edition, 2013, www.cengage.com
 - *Code of Federal Regulations - 29 CFR Part 1926 (OSHA)*, with latest available amendments, 866-512-1800, <http://www.access.gpo.gov/nara/cfr/cfr-table-search.html#page1>
- OR**
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ROOFING BUSINESS AND LAW

# of Questions	Passing %	Passing (Raw)	Time Allowed
50	70	35	120 minutes

Topic Information		# of Items
1.	Bidding and Estimating a. General Estimating b. Bid	10
2.	Project Management and Supervision a. General Project Oversight b. Oversee Budget c. Oversee Quality Control d. Oversee Materials Control e. Manage Jobsite Safety	7

REFERENCE LIST

The reference materials listed below were used to prepare the questions for this examination. The examination may also contain questions based on trade knowledge or general



	<ul style="list-style-type: none"> f. Schedule g. Potentially Hazardous Materials h. Environmental Protection i. Submittals and Reports j. Ethics k. Liens 	
3.	Contracts <ul style="list-style-type: none"> a. Terminology b. Required Elements/Components c. Contract Types d. Change Orders e. Standardized Documents f. Interpretation g. Warranties h. Documents/Inclusions i. Other Obligations 	5
4.	Financial <ul style="list-style-type: none"> a. Business Organization Characteristics, Advantages, and Disadvantages b. Business Start-up c. Accounting Method d. Cash Flow Terminology e. Accounts Receivable f. Accounts Payable g. Balance Sheet h. Income Statement i. Taxes on Company Income j. Obtaining Financing k. Checking Account l. Financial Ratios 	8
5.	Labor and Personnel <ul style="list-style-type: none"> a. ADA b. Labor Standards c. Requirements for Non-citizens and/or Non-residents d. Workers' Compensation e. Federal or State OSHA f. New Hires g. Personnel Record Keeping h. Other Requirements 	5
6.	Risk Management <ul style="list-style-type: none"> a. Insurance b. Bonds 	4
7.	Payroll and Payroll Taxes <ul style="list-style-type: none"> a. Taxes b. Forms and Due Dates 	5
8.	Licensing Requirements <ul style="list-style-type: none"> a. Required Insurance/Bonds b. Renewal 	6

The following reference materials are allowed in the examination center:

- State of Oklahoma, Construction Industries Board, Unofficial Administrative Rules & Courtesy Exam Study Aids Book, current edition (available at the Construction Industries Board Office - no fee).
- Oklahoma Roofing Contractor Registration Act, Oklahoma Statutes, Title 59, Section 1151, *et seq.*, Oklahoma Construction Industries Board, 2401 N.W. 23rd Street, Suite 2F, Oklahoma City, OK 73107, www.ok.gov/cib
- Oklahoma Roofing Contractor Regulations, Oklahoma Administrative Code, Title 158, Chapter 85, Oklahoma Construction Industries Board, 2401 N.W. 23rd Street, Suite 2F, Oklahoma City, OK 73107, www.ok.gov/cib
- Oklahoma Fine Schedule of the Construction Industries Board, Oklahoma Administrative Code, Title 158, Chapter 10, Oklahoma Construction Industries Board, 2401 N.W. 23rd Street, Suite 2F, Oklahoma City, OK 73107, www.ok.gov/cib
- Oklahoma Workers' Compensation Act, Oklahoma Statutes, Title 85A, Chapter 1, Oklahoma Construction Industries Board, 2401 N.W. 23rd Street, Suite 2F, Oklahoma City, OK 73107, www.ok.gov/cib
OR
Oklahoma Workers' Compensation Act Statutory Excerpts, Oklahoma Statutes, Title 85A, Chapter 1, Oklahoma Construction Industries Board, 2401 N.W. 23rd Street, Suite 2F, Oklahoma City, OK 73107, www.ok.gov/cib
- Oklahoma Lien Law, Oklahoma Statutes, Title 42, Chapter 3, Oklahoma Construction Industries Board, 2401 N.W. 23rd Street, Suite 2F, Oklahoma City, OK 73107, www.ok.gov/cib
- *Contractors' Guide to Business, Law and Project Management*, Basic 11th or 12th Edition, National Association of State Contractors Licensing Agencies (NASCLA), 23309 N. 17th Drive, Phoenix, Arizona 85027, Telephone: (623) 587-9519, Fax: (623) 587-9625, www.nascla.org. **Only the 12th Edition may be used after 7/1/2018.**

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This examination is OPEN BOOK.



ROOFING CONTRACTOR COMMERCIAL ENDORSEMENT

SCOPE OF WORK

A commercial roofing contractor's work includes, but is not limited to, installation, renovation, remodeling, reroofing, reconstructing, repair, maintenance, improvement, alteration, and waterproofing of building roofs using a variety of materials, including shingles, asphalt, and metal. Commercial roofing contractors supervise and manage activities or personnel, supply material, and solicit commercial roofing contracts. A commercial roofing contractor may operate as an individual, firm, partnership, or corporation installing or repairing roofs on residential, commercial and industrial buildings.

# of Questions	Passing %	Passing (Raw)	Time Allowed
50	70	35	150 minutes

Topic Information	# of Items
1. General Roofing Knowledge	4
2. Low Slope Roofing	15
3. Steep Slope Roofing	5
4. Architectural Metal Roofing Systems and Sheet Metal Flashing	9
5. Moisture and Energy Control	6
6. Repairs and Reroofing	6
7. Safety	5

REFERENCE LIST

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Candidates may use a silent, non-printing, non-programmable calculator in the examination center. Candidates will also be provided with a magnifying glass upon request.

This examination is OPEN BOOK.

The following reference materials are allowed in the examination center:

- *Architectural Sheet Metal Manual*, 2012, Sheet Metal and Air Conditioning Contractors' National Association, Inc. (SMACNA), www.smacna.org/store
- *International Building Code*, 2015, International Code Council, (800) 786-4452, www.iccsafe.org with Oklahoma Revisions

<http://ok.gov/oubcc/Codes & Rules/Adopted Building Codes/>

- *NRCA Roofing Manual: Membrane Roofing Systems*, 2015, The National Roofing Contractors Association, (866) 275-6722, <http://www.nrca.net/store/detail/the-nrca-roofing-manual-membrane-roof-systems2015/1358>
- *NRCA Roofing Manual: Metal Panel and SPF Roof Systems*, 2012 or 2016, The National Roofing Contractors Association, (847) 299-9070, www.nrca.net **Only the 2016 version may be used after 12/1/2018**
- *NRCA Roofing Manual: Steep Slope Roof Systems*, 2013 or 2017, The National Roofing Contractors Association, (847) 299-9070, www.nrca.net **Only the 2017 version can be used after 12/1/2018**
- *NRCA Roofing Manual: Architectural Metal Flashing Condensation and Air Leakage Control, and Reroofing*, 2014, The National Roofing Contractors Association, (847) 299-9070, www.nrca.net
- *Code of Federal Regulations - 29 CFR Part 1926 (OSHA)*, with latest available amendments, 866-512-1800, <http://www.access.gpo.gov/nara/cfr/cfr-table-search.html#page1>
OR
Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI, with latest available amendments, 866-589-3088, <http://www.psionlinestore.com>

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OKLAHOMA ELECTRICAL, MECHANICAL, ROOFING AND PLUMBING REGISTRATION FORM

Legal Name:

Last Name

First Name

M.I.

OK ID Number:

Mailing Address:

Number, Street

Apt/Ste

City

State

Zip Code

Telephone:

Home

Office

Email:

Examination Title	Examination Fee	Check Here
ELECTRICAL		
Electrical Business and Law Only	\$100	
Unlimited Electrical Journeyman	\$100	
Residential Electrical Journeyman	\$100	
Combination: Limited and Unlimited Electrical Contractor & Business and Law	\$100	
Combination: Residential Electrical Contractor & Business and Law	\$100	
* Limited and Unlimited Electrical Contractor	\$100	
** Residential Electrical Contractor	\$100	
Refinery Electrical Journeyman	\$100	
MECHANICAL		
Mechanical Business and Law Only	\$100	
Natural Gas Journeyman	\$100	
Process Piping Journeyman	\$100	
Sheet Metal Journeyman	\$100	
HVACR Journeyman Limited	\$100	
HVACR Journeyman Unlimited	\$100	
Refrigeration Contractor	\$100	
Refrigeration Journeyman	\$100	
Limited Residential Journeyman	\$100	
Combination: Natural Gas Contractor & Business and Law	\$100	
Combination: Process Piping Contractor & Business and Law	\$100	
Combination: Sheet Metal Contractor & Business and Law	\$100	
Combination: HVACR Contractor Limited & Business and Law	\$100	
Combination: HVACR Contractor Unlimited & Business and Law	\$100	
*** Natural Gas Contractor	\$100	
*** Process Piping Contractor	\$100	
*** Sheet Metal Contractor	\$100	
*** HVACR Contractor Limited	\$100	
*** HVACR Contractor Unlimited	\$100	



PLUMBING		
Plumbing Business and Law Only	\$100	
Plumbing Journeyman and Natural Gas	\$100	
Combination: Plumbing Contractor and Natural Gas & Business and Law	\$100	
**** Plumbing Contractor and Natural Gas	\$100	
ROOFING		
Roofing Business and Law Only	\$100	
****Roofing Contractor Commercial Endorsement	\$100	
Combination: Roofing Contractor Commercial Endorsement & Business and Law	\$100	
Total Fee	\$	

Total Fee Included for Examination: \$_____. You may pay by credit card, company check, cashier's check or money order. Make check or money order payable to PSI and note your ID# on it.

If paying by credit card, check one: VISA MasterCard American Express Discover

Card Number: _____ Exp. Date: _____

Card Verification No: _____ *The card verification number may be located on the back of the card (the last three digits on the signature strip) or on the front of the card (the four digits to the right and above the card account number).*

Billing Street Address: _____ Billing Zip Code: _____

Cardholder Name (Print): _____ Signature: _____

I am submitting the Exam Accommodations Request (at the end of this bulletin) and required documentation. Yes No

Affidavit: I certify that the information provided on this registration form (and/or telephonically to PSI) is correct. I understand that any falsification of information may result in denial of licensure. I have read and understand the examination information bulletin.

Signature: _____ **Date:** _____

IF YOU ARE REGISTERING BY MAIL OR FAX, SIGN AND DATE THIS REGISTRATION FORM ON THE LINES PROVIDED.

Complete and forward this registration form with the applicable examination fee to:

PSI licensure:certification * ATTN: Examination Registration OK CO

3210 E Tropicana * Las Vegas * NV * 89121

Fax (702) 932-2666 * (800) 733-9267 * TTY (800) 735-2929

www.psiexams.com

PSI may occasionally share your information with partners who have offers of interest to you. Please check this box if you do not wish PSI to share your information with these parties. Please note: PSI will never release your ID number or SSN number.

Asterisk Explanation

Note: To obtain an **Unlimited Electrical Contractor** license, you must pass the Unlimited Electrical Contractor exam and the Electrical Business and Law exam. The Unlimited Electrical Contractor exam and the Electrical Business and Law exam can be taken as a combination—only one \$100 fee is required when both exams are taken during the same session.

**** Note:** To obtain a **Residential Electrical Contractor** license, you must pass both the Residential Electrical Contractor exam and the Electrical Business and Law Exam. The Residential Electrical Contractor exam and the Electrical Business and Law exam can be taken as a combination—only one \$100 fee is required when both exams are taken during the same session.

***** Note:** To obtain this license, you must pass both the specific contractor exam and the Mechanical Business and Law exam. The specific contractor exam and the Mechanical Business and Law exam can be taken as a combination—only one \$100 fee is required when both exams are taken during the same session.

****** Note:** To obtain the **Plumbing Contractor and Natural Gas** license, you must pass both the contractor exam and the Plumbing Business and Law exam. The Plumbing Contractor and Natural Gas exam and the Plumbing Business and Law exam can be taken as a combination—only one \$100 fee is required when both exams are taken during the same session.

****** Note:** To obtain the **Roofing Contractor Commercial Endorsement** license, you must pass both the contractor exam and the Roofing Business and Law exam. The Roofing Contractor Commercial Endorsement exam and the Roofing Business and Law exam can be taken as a combination—only one \$100 fee is required when both exams are taken during the same session.



To place an order for one or more of the following items listed, you may:

- Order online at www.pSIONlinestore.com
- Call the PSI Online store toll-free at (866) 589-3088

Note: prices are available online at www.pSIONlinestore.com

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<input type="checkbox"/>	Ugly's Electrical References
<input type="checkbox"/>	Modern Refrigeration and Air Conditioning

Please note: Inventory and pricing subject to change without notice.



EXAM ACCOMMODATIONS OR OUT-OF-STATE TESTING REQUEST FORM

All examination centers are equipped to provide access in accordance with the Americans with Disabilities Act (ADA) of 1990. Applicants with disabilities or those who would otherwise have difficulty taking the examination may request exam accommodations.

Candidates who wish to request exam accommodations because of a disability should fax this form and supporting documentation to PSI at (702) 932-2666.

Requirements for exam accommodation requests:

You are required to submit documentation from the medical authority or learning institution that rendered a diagnosis. Verification must be submitted to PSI on the letterhead stationery of the authority or specialist and include the following:

- Description of the disability and limitations related to testing
- Recommended accommodation/modification
- Name, title and telephone number of the medical authority or specialist
- Original signature of the medical authority or specialist

Date: _____ OK ID#: _____

Legal Name: _____
Last Name First Name

Address: _____
Street City, State, Zip Code

Telephone: (_____) _____ - _____ (_____) _____ - _____
Home Work

Email Address: _____

Check any exam accommodations you require (requests must concur with documentation submitted):

- Reader (as accommodation for visual impairment or learning disability)
- Extended time (Additional time requested: _____)
- Large-print written examination
- Other _____
- *Out-of-State Testing Request (this request does not require additional documentation) _____

Site requested: _____
**You may email your out-of-state request to OutofStateRequest@psionline.com.*

- After you have registered for the exam, complete and fax this form, along with supporting documentation, to (702) 932-2666 or email it to examaccommodations@psionline.com.
- After 4 days, PSI Exam Accommodations will email you confirmation of approval with instructions for the next step.

DO NOT SCHEDULE YOUR EXAMINATION UNTIL THIS DOCUMENTATION HAS BEEN RECEIVED AND PROCESSED BY PSI EXAM ACCOMMODATIONS.

PSI licensure:certification
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Las Vegas, NV 89121