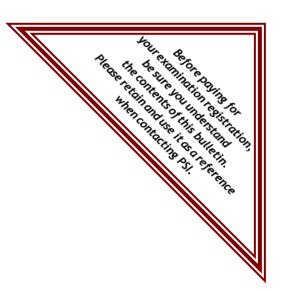


PSI 3210 E Tropicana Las Vegas, NV 89121 www.psiexams.com



STATE OF NEW MEXICO

JOURNEYMAN 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 approval and examination process for journeyman certification in the State of New Mexico.

Candidates must be pre approved to take any examination. Please refer to public.psiexams.com to view our *Frequently Asked Questions* and to download instructional forms and applications. If you have any eligibility questions please call 877 663 9267.

Note: once you become eligible you must test within 6 months of the date of eligibility. If you do not test within 6 months you will need to reapply with the Division.

The Construction Industries Division of The New Mexico Regulation and Licensing Department (CID) has contracted with PSI to conduct its examination approval process and examination testing. PSI provides examinations through a network of computer examination centers in New Mexico 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

In order to schedule for an examination, you must be preapproved.

Once you receive your approval, you will be responsible for contacting PSI to schedule an appointment to take an examination and make examination payment arrangements. The examination fee is valid for 1 year from the date PSI receives the fee.

You may not take the same examination more than twice within a 30-day period. If you have two fails within a 30-day period, you must wait 30 days from your 1st attempt, before you can test again.

Passing scores are valid for 1 year from the date of your examination.

Fees are listed on the registration form found at the end of this Candidate Information Bulletin.

INTERNET REGISTRATION

For the fastest and most convenient test scheduling process, PSI recommends that candidates register for their examinations using the Internet. To register over the Internet, candidates will need a valid credit card (VISA, MasterCard, American Express or Discover).

Candidates register online by accessing PSI's registration website at www.psiexams.com. Internet registration is available 24 hours a day. To register by Internet, complete the steps as follows:

- Complete the registration form on line and send it to PSI via the Internet.
- Upon completion of the online registration form, you will be given the available examination dates and locations for scheduling your examination. Select your desired testing date.

FAX REGISTRATION

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

- 1. Complete the Examination Registration Form, 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 call PSI to schedule the examination at (800) 733-9267.

STANDARD MAIL REGISTRATION

- Complete the Examination Registration Form found in this Candidate Information Bulletin. BE SURE TO READ ALL DIRECTIONS CAREFULLY BEFORE COMPLETING THE EXAMINATION REGISTRATION FORM. IMPROPERLY COMPLETED FORMS WILL BE RETURNED TO YOU UNPROCESSED.
- Return the completed original form to PSI with the appropriate examination fee. Payment of fees may be made by credit card (VISA, MasterCard, American Express or Discover), company check, cashier's check or money order. Check or money order should be made payable to PSI, with your social security noted on it to ensure that your fees are properly assigned. CASH AND PERSONAL CHECKS ARE NOT ACCEPTED.

Please allow 7 business days to process your registration before scheduling your examination at (800) 733-9267.

TELEPHONE REGISTRATION

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

- Complete the Examination Registration Form, including your credit card number and expiration date, so that you will be prepared with all of the information needed to register by telephone.
- 2. You may call (800) 733-9267, 24 hours a day and register using the Automated Registration System. Otherwise, PSI registrars are available Monday through Friday between 5:30 am and 8:00 pm, and Saturday-Sunday between 7:00 am and 3:30 pm, Mountain Time, to receive the information listed on your Examination Registration Form and to schedule your appointment for the examination.

PSI will make every effort to schedule the examination site and time that is most convenient for you. If space is available in the examination site of your choice, you may schedule an examination 1 day prior to the examination date of your choice, up to 5:00 pm, Mountain Time. Please be prepared to accept alternate examination appointment choices.



CANCELING AN EXAMINATION APPOINTMENT

You may cancel and reschedule an examination appointment without forfeiting your fee if your cancellation notice is received 2 days before the scheduled examination date. For example, for a Monday appointment, the cancellation notice would need to be received on the previous Saturday. You may call PSI at (800) 733-9267. Please note that you may also use the automated system, using a touch-tone phone, 24 hours a day in order to cancel and reschedule your appointment.

Note: A voice-mail message is not an acceptable form of cancellation. Please use the PSI Website, automated telephone system, or call PSI and speak to a Customer Service Representative.

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 at least 2 days before the schedule examination date;
- Do not appear for your examination appointment;
- Arrive after examination start time; or
- Do not present proper identification when you arrive for the examination.

SPECIAL EXAMINATION ARRANGEMENTS

All examination centers are equipped to provide access in accordance with the Americans with Disabilities Act (ADA) of 1990, and every reasonable accommodation 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 it 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.

EXAMINATION SITE LOCATION

The New Mexico examinations are administered at the PSI examination centers in New Mexico as listed below:

Albuquerque

2301 Yale Blvd, SE Building C, Suite 4 Albuquerque, NM 87106

From Interstate 25, take the Gibson Blvd exit and travel East on Gibson Blvd until you reach Yale Blvd Southeast. Turn right on Yale Blvd S.E. (heading South), just past Renard Place and then turn right into the Commerce Center. The site is across the street from the Waffle House and Comfort Inn.

Farmington

1307 E. 20th St.

Farmington, NM 87401

From E Main St, turn right on Sullivan and turn left on 20th St.

Las Cruces

1001 N. Solano, Suite # D

Las Cruces, NM 88001

Take Highway 70 West to Solano. Turn South on Solano and go one block past Spruce to Pinon. The test center is on the Northwest corner of Solano and Pinon.

Roswell

105 E. Fifth St.

Roswell, NM 88201

From US-285 S / US-70 W, turn LEFT onto E 5TH ST.

Santa Fe

4001 Office Court Drive, Suite 301

Santa Fe, NM 87507

From Albuquerque International Sunport Airport: Head East on Sunport Blvd SE. Merge onto I-25 N via the ramp to I-40/Downtown and Santa Fe. Take exit 278 and merge onto Cerrillos Road/NM-14 N. Approximately 2.5 miles north on Cerrillos Road, turn right on Wagon Road. Turn right on Office Court Drive into the office park.

From Espanola, NM and North Cities: Head Southeast on East Paseo De Onate/US-285S/US-84S (toward Calle Espinosa). Continue on Sandia Drive. Slight right at South Riverside Drive/US-285S/US-84S. Turn right on Cerrillos Road. Approximately 5 miles on Cerrillos Road, turn left on Wagon Road. Turn right on Office Court Drive into the office park.

Colorado Examination Site

The following site will offer the New Mexico examinations.

Durango

799 East 3rd Street, Suite 3

Durango, CO 81301

From $\bar{\text{H}}$ wy 550: Turn East on College Drive. Go straight then turn right on East 8th Avenue. Follow until East 3rd Street. PSI Testing Site is on the right in Suite 3.

Texas Examination Sites

The following sites will offer the New Mexico examinations.

Amarillo

4312 Teckla, Suite 500

Amarillo, TX 79109

Exit off I-40 to Western and go South one street passed the 7th traffic light to Ridgecrest and turn right. Stay on Ridgecrest until you come to the red brick office complex on the left side corner of Ridgecrest and Teckla. 4312 is the 3rd building facing Teckla. Ste 500 is the end suite on the North side of the building.

From Canyon, take Bell St exit and go North to traffic light at 45th St and turn right. Turn left at the 2nd traffic light to Teckla.

El Paso

The Atrium

1155 Westmoreland, Suite 110

El Paso, TX 79925

From I-10 W, take the Airways exit North. Turn right at the first light (Viscount). Turn right on Westmoreland Dr.

Lubbock

The Center

4413 82nd St., Suite 210

Lubbock, TX 79424

From S Loop 289, take the Quaker Ave exit and go South. Turn right on $82^{\rm nd}$ St.

(psi) www.psiexams.com

Midland

Westwood Village Shopping Center 4200 West Illinois Avenue, Suite 200 Midland, TX 79703

From I-20, take Midkiff Road exit. Go North on Midkiff Road. Take a left on Illinois Ave. Go .8 miles and turn right into Chinese Kitchen's parking lot at 4200 W Illinois. Suite is at the end of the left Strip. From Business 20 (Old Hwy 80) going West, follow Front Street until Wall St Traffic light. Go 2 blocks and turn right on Midkiff. Turn left on Illinois. Go .8 miles and turn right into Chinese Kitchen's parking lot at 4200 W Illinois. Suite is at the end of the left Strip. From North Hwy 349, Look for Loop 250 West (just before overpass). Turn right at Loop and go 2 miles to Exit Midkiff. Turn left at traffic light. Turn right at Illinois traffic signal. Turn right onto Chinese Kitchen's parking Lot at 4200 W Illinois. Suite is at the end of the left

Additionally, PSI has examination centers in many other regions across the United States. You may take this examination at any of these locations by filling out the Special Arrangement Request Form found at the end of this Candidate Information 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 signin, 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. All identification provided must match the name on the Eligibility Letter.

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 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

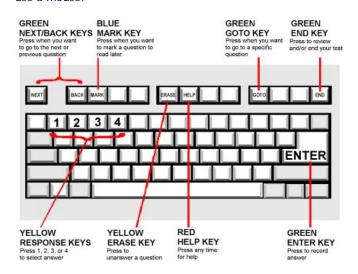
The following security procedures will apply during the examination:

- NO conversing or any other form of communication among candidates is permitted once you enter the examination area.
- Cell phones, pagers, recording devices, and children are not allowed in the examination center. NO personal items PSI will not be are to enter the testing center. responsible for any personal items and suggests that you leave them locked in the trunk of your car.
- 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.

- No smoking, eating, or drinking will be allowed at the examination site.
- You may not exit the building during the examination.
- Copying or communicating examination content is a violation of PSI security policy and the State Law. Either one may result in the disqualification of examination results and may lead to legal action.

TAKING THE **EXAMINATION BY COMPUTER**

Taking the PSI written examination by computer is simple. You do not need any computer experience or typing skills. You will use fewer keys than you use on a touch-tone telephone. All response keys are colored and have prominent characters. An illustration of the special keyboard is shown here. You may also use a mouse.



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 to the computer and keyboard 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 using the keys, answering questions, and reviewing your answers.

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.

EXAMINATION QUESTION EXAMPLE

During the examination, you should press 1, 2, 3, or 4 to select your answer or press "MARK" to mark it for later review. You should then press "ENTER" to record your answer and move on to the next question. A sample question display follows:





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 per examination, a small number of five 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.

EXAMINATION REVIEW

PSI, in cooperation with the New Mexico Regulation and Licensing Department, 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 on the computer keyboard during the examination. 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 department may re-evaluate candidates' results and adjust them accordingly. This is the only review of examination materials available to applicants.

SCORE REPORTING

Your score will be given to you immediately following completion of the theory 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 <u>pass</u>, you will immediately receive a successful notification.
 - If you <u>do not pass</u>, 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.

Your practical score report will be mailed to you within 7 business days of the test date.

DUPLICATE SCORE REPORTS

You may request a duplicate score report after your examination by emailing score-eport@psionline.com or by calling 800-733-9267.

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.

B01 - Journeyman Boiler Operator

| # (| of Questions | % Required to Pass | Time Allowed |
|-----|--------------|-----------------------|--------------|
| | 70 | 75% (53 points) | 185 Minutes |



CONTENT OUTLINE

| Subject Area | # of |
|--|-------|
| Subject Area | Items |
| Burners, Venting and Draft | 13 |
| Controls, Boiler Fitting and Accessories | 13 |
| Testing and Inspections | 13 |
| Applications and Theory | 8 |
| Water Treatment | 8 |
| Safety | 8 |
| Maintenance | 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 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.

This examination is OPEN BOOK.

The following reference materials <u>are</u> allowed in the examination center:

- Low Pressure Boilers, Frederick M. Steingress, Daryl R. Walker, 4th Edition, 2013, American Technical Publishers, Inc., (800) 323-3471, www.atplearning.com
- New Mexico Boiler Rules and Regulations (NMAC 14.9.4), 2005, www.nmcpr.state.nm.us/NMAC, (505) 476-4700

Candidates are responsible for bringing their own references to the examination center. Reference materials must be bound, and may be highlighted, underlined, and/or indexed prior to the examination session. Reference materials containing any writing will not be allowed into the examination. References may not be written in 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 (loose or attached) 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 examination begins.

B02 - Journeyman Boiler Operator

| # of Questions | % Required to Pass | Time Allowed |
|----------------|-----------------------|--------------|
| 50 | 75% (38 points) | 185 Minutes |

CONTENT OUTLINE

| Subject Area | # of Items |
|--|---------------|
| Burners, Venting and Draft | 10 |
| Controls, Boiler Fitting and Accessories | 10 |
| Testing and Inspections | 10 |

| Application and Theory | 10 |
|-------------------------|----|
| Maintenance/Water Treat | 6 |
| Safety | 4 |

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.

This examination is OPEN BOOK.

The following reference materials <u>are</u> allowed in the examination center:

- Low Pressure Boilers, Frederick M. Steingress, Daryl R. Walker, 4th Edition, 2013, American Technical Publishers, Inc., (800) 323-3471, www.atplearning.com
- High Pressure Boilers, Steingress, Frost, and Walker, 2012, 5th edition, American Technical Publishers, Inc., (800) 323-3471, www.go2atp.com
- New Mexico Boiler Rules and Regulations (NMAC 14.9.4), 2005, www.nmcpr.state.nm.us/NMAC, (505) 476-4700

Candidates are responsible for bringing their own references to the examination center. Reference materials must be bound, and may be highlighted, underlined, and/or indexed prior to the examination session. Reference materials containing any writing will not be allowed into the examination. References may not be written in 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 (loose or attached) 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 examination begins.

ER-1J Journeyman Residential Electrical Wiring Part 1 Code Examination

| # of Questions | % Required to Pass | Time Allowed |
|----------------|-----------------------|--------------|
| 40 | 75% (30 points) | 90 minutes |

CONTENT OUTLINE

| Subject Area | # of Items |
|--|---------------|
| General Knowledge and Electrical Installation Requirements | 5 |
| Services, Feeders, and Branch Circuits | 6 |
| Overcurrent Protection | 4 |
| Grounding and Bonding | 4 |
| Conductors and Cables | 6 |
| Raceways and Boxes | 4 |

| Special Occupancies and Special Equipment, including Pools | 2 |
|--|---|
| Lighting and General-Use Equipment | 2 |
| New Mexico State Code | 5 |
| Low Voltage | 2 |

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.

This examination is OPEN BOOK.

The following reference materials <u>are</u> allowed in the examination center:

- NFPA 70 National Electrical Code, 2014, or The National Electrical Code Handbook, National Fire Protection Association (NFPA), (800) 344-3555, www.nfpa.org
- New Mexico Electrical Code (NMAC 14.10.4), 2014, www.nmcpr.state.nm.us/NMAC, (505) 476-4700

Candidates are responsible for bringing their own references to the examination center. Reference materials must be bound, and may be highlighted, underlined, and/or indexed prior to the examination session. Reference materials containing any writing will not be allowed into the examination. References may not be written in 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 (loose or attached) 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 examination begins.

ER-1J Journeyman Residential Electrical Wiring Part 2 Theory Examination

| # of Questions | % Required to Pass | Time Allowed |
|----------------|-----------------------|--------------|
| 25 | 75% (19 points) | 60 minutes |

CONTENT OUTLINE

| Subject Area | # of Items |
|---|---------------|
| General Knowledge and Electrical Installation | 9 |
| Requirements | |
| Services, Feeders, and Branch Circuits | 4 |
| Overcurrent Protection | 2 |
| Grounding and Bonding | 2 |
| Conductors and Cables | 2 |
| Raceways and Boxes | 2 |
| Special Occupancies and Special Equipment, | 1 |

| including Pools | |
|------------------------------------|---|
| Lighting and General-Use Equipment | 1 |
| Low Voltage | 2 |

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.

This examination is CLOSED BOOK.

The following reference materials <u>are not</u> allowed in the examination center:

- NFPA 70 National Electrical Code, 2014, or The National Electrical Code Handbook, National Fire Protection Association (NFPA), (800) 344-3555, www.nfpa.org
- New Mexico Electrical Code (NMAC 14.10.4), 2014, www.nmcpr.state.nm.us/NMAC, (505) 476-4700
- American Electricians' Handbook, 16th Edition, 2013, McGraw-Hill, (800) 262-4729, www.books.mcgraw-hill.com
- Ugly's Electrical References, George V. Hart, 2008 or 2011, Jones and Bartlett, (800) 832-0034, www.uglys.net. All items are based on either the 2008 or 2011 editions.

<u>Journeyman Residential Electrical Practical</u> Examination

| # of Points | % Required to Pass | Time Allowed |
|-------------|-----------------------|--------------|
| 100 | 75% (75 points) | 120 minutes |

CONTENT OUTLINE

| Subject Area | # of Points |
|--------------------------|----------------|
| Doorbell Project | 35 |
| Lighting Project | 35 |
| Simple Conduit Bending | 20 |
| Materials Identification | 10 |

EE-98J Journeyman Residential and Commercial Electrical Part 1 Code Examination

| # of Questions | % Required to Pass | Time Allowed |
|----------------|-----------------------|--------------|
| 50 | 75% (38 points) | 145 minutes |

CONTENT OUTLINE

| Subject Area | # of Items |
|---|---------------|
| General Knowledge and Electrical Installation Requirements | 4 |
| Services, Feeders, and Branch Circuits | 7 |
| Overcurrent Protection | 4 |
| Grounding and Bonding | 6 |
| Conductors and Cables | 5 |
| Raceways and Boxes | 5 |
| Hazardous Locations, Special Occupancies, and Special Equipment | 4 |
| Lighting, Signs, and General-Use Equipment | 3 |
| Motors, Transformers, and Generators | 5 |
| NM State Code | 4 |
| Low Voltage | 3 |

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.

This examination is OPEN BOOK.

The following reference materials <u>are</u> allowed in the examination center:

- NFPA 70 National Electrical Code, 2014, or The National Electrical Code Handbook, National Fire Protection Association (NFPA), (800) 344-3555, www.nfpa.org
- New Mexico Electrical Code (NMAC 14.10.4), 2014, www.nmcpr.state.nm.us/NMAC, (505) 476-4700
- National Electrical Safety Code, 2007, Institute of Electrical and Electronics Engineers, Inc., (732) 981-0060, www.ieee.org

The following reference materials <u>are not</u> allowed in the examination center:

- Alternating Current Fundamentals, John R. Duff and Stephen L. Herman, 2000, 6th Edition, Delmar/Thomson Learning, (800) 347-7707, www.delmarlerning.com,
- Lineman's and Cableman's Handbook, Shoemaker and Mack, 12th Edition, 2011, McGraw Hill, 800-262-4729, shop.mcgraw-hill.com

Candidates are responsible for bringing their own references to the examination center. Reference materials must be bound, and may be highlighted, underlined, and/or indexed prior to the examination session. Reference materials containing any writing will <u>not</u> be allowed into the examination. References may not be written in 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 (loose or attached) with their approved references. Any additional materials will

be removed from the references and confiscated. References may be tabbed/indexed with permanent tabs only. <u>Temporary tabs</u>, such as Post-It notes, are not allowed and must be removed from the reference before the examination begins.

EE-98J Journeyman Residential and Commercial Electrical Part 2 Theory Examination

| # of Questions | % Required to Pass | Time Allowed |
|----------------|-----------------------|--------------|
| 50 | 75% (38 points) | 135 minutes |

CONTENT OUTLINE

| Subject Area | # of Items |
|---|---------------|
| General Knowledge and Electrical Installation Requirements | 18 |
| Services, Feeders, and Branch Circuits | 5 |
| Overcurrent Protection | 4 |
| Grounding and Bonding | 5 |
| Conductors and Cables | 3 |
| Raceways and Boxes | 3 |
| Hazardous Locations, Special Occupancies, and Special Equipment | 2 |
| Lighting, Signs, and General-Use Equipment | 2 |
| Low Voltage, including Alarms | 8 |

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.

This examination is CLOSED BOOK.

The following reference materials <u>are not</u> allowed in the examination center:

- NFPA 70 National Electrical Code, 2014, or The National Electrical Code Handbook, National Fire Protection Association (NFPA), (800) 344-3555, www.nfpa.org
- American Electricians' Handbook, 16th Edition, 2013, McGraw-Hill, (800) 262-4729, www.books.mcgraw-hill.com
- Ugly's Electrical References, George V. Hart, 2008 or 2011, Jones and Bartlett, (800) 832-0034, www.uglys.net. All items are based on either the 2008 or 2011 editions.
- NFPA 72 National Fire Alarm Code, 2010, National Fire Protection Association (NFPA), (800) 344-3555, www.nfpa.org
- Cathodic Protection, John Morgan, 1987, 2nd Edition, National Association of Corrosion Engineers, (800) 797-6223, www.nace.org
- Low Voltage Wiring: Security/Fire Alarm Systems, John E. Traister and Terry Kennedy, 2002, 3rd Edition, McGraw-Hill, (800) 262-4729, www.books.mcgraw-hill.com

- Telecommunications Wiring, Clyde Herrick, 2001, 3rd Edition, Prentice-Hall PTR, (800) 382-3419, www.prenhall.com
- Live Sound Reinforcement: A Comprehensive Guide to P.A. and Music Reinforcement Systems and Technology, Scott Hunter Stark, 2002, 2nd Edition, (707) 554-1935, www.courseptr.com/artistpro
- Data, Voice, and Video Cabling, 3rd Edition, 2009, The Fiber Optic Association, Jim Hayes and Paul Rosenberg, www.cengage.com
- CCTV: Networking and Digital Technology, Vlado Damjanovski, 2005, 2nd Edition, Butterworth-Heinemann (Reed Publishing), (800) 545-2522, www.bh.com
- Lineman's and Cableman's Handbook, Shoemaker and Mack, 12th Edition, 2011, McGraw Hill, 800-262-4729, shop.mcgraw-hill.com
- National Electrical Safety Code, 2007, Institute of Electrical and Electronics Engineers, Inc., (732) 981-0060, www.ieee.org

<u>Journeyman Residential and Commercial Electrical</u> Practical Examination

| # of Points | % Required to Pass | Time Allowed |
|-------------|-----------------------|--------------|
| 100 | 75% (75 points) | 120 minutes |

CONTENT OUTLINE

| Subject Area | # of Points |
|--------------------------|----------------|
| Motor Control Project | 20 |
| Transformer Project | 20 |
| Doorbell Project | 10 |
| Lighting Project | 10 |
| Simple Conduit Bending | 10 |
| Complex Conduit Bending | 20 |
| Materials Identification | 10 |

<u>EL-1J Journeyman Electrical Distribution Systems, including Transmission Lines</u>

| # of Questions | % Required to Pass | Time Allowed |
|----------------|-----------------------|--------------|
| 80 | 75% (60 points) | 205 Minutes |

CONTENT OUTLINE

| Subject Area | # of Items |
|--------------------------------|---------------|
| General Electrical Knowledge | 10 |
| Electrical Supply/Sub-Stations | 8 |
| Transformers | 10 |
| Conductors | 8 |
| Poles and Structures | 6 |
| Grounding Methods | 8 |
| Overhead | 8 |
| Underground | 6 |
| Equipment and Safety | 6 |
| Equipment over 600 Volts | 10 |

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.

This examination is OPEN BOOK.

The following reference materials <u>are</u> allowed in the examination center:

- National Electrical Safety Code Handbook, David J. Marne, 2007, McGraw-Hill, (800) 262-4729, www.books.mcgrawhill.com
- NFPA 70 National Electrical Code, 2014, or The National Electrical Code Handbook, National Fire Protection Association (NFPA), (800) 344-3555, www.nfpa.org
- New Mexico Electrical Code (NMAC 14.10.4), 2014, www.nmcpr.state.nm.us/NMAC, (505) 476-4700
- New Mexico Electrical Safety Code (NMAC 14.10.5), 2008, www.nmcpr.state.nm.us/NMAC, (505) 476-4700

The following reference materials <u>are not</u> allowed in the examination center:

- American Electricians' Handbook, 16th Edition, 2013, McGraw-Hill, (800) 262-4729, www.books.mcgraw-hill.com
- Lineman's and Cableman's Handbook, Shoemaker and Mack, 12th Edition, 2011, McGraw Hill, 800-262-4729, shop.mcgraw-hill.com

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ES-1J Journeyman Electrical Signs and Outline Lighting

| # of Questions | % Required to Pass | Time Allowed |
|----------------|-----------------------|--------------|
| 50 | 75% (38 points) | 120 Minutes |

CONTENT OUTLINE

| Subject Area | # of Items |
|------------------------------|---------------|
| General Knowledge and Theory | 5 |
| Wiring and Protection | 15 |



| Wiring Methods and Material | 15 |
|-----------------------------|----|
| Equipment For General Use | 5 |
| Special Occupancies | 5 |
| Special Equipment | 5 |

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 <u>are</u> allowed in the examination center:

- NFPA 70 National Electrical Code, 2014, or The National Electrical Code Handbook, National Fire Protection Association (NFPA), (800) 344-3555, www.nfpa.org
- New Mexico Electrical Code (NMAC 14.10.4), 2014, www.nmcpr.state.nm.us/NMAC, (505) 476-4700

The following reference materials <u>are not</u> allowed in the examination center:

- Neon Techniques, Wayne Strattman, 2003, 4th edition, ST Publications, Inc., (800) 925-1110, www.stpubs.com
- American Electricians' Handbook, 16th Edition, 2013, McGraw-Hill, (800) 262-4729, www.books.mcgraw-hill.com

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ES-2J Journeyman Cathodic Protection, and Lightning Protection Systems

| # of Questions | % Required to Pass | Time Allowed |
|----------------|-----------------------|--------------|
| 50 | 75% (38 points) | 120 Minutes |

CONTENT OUTLINE

| Subject Area | # of Items |
|------------------------------|---------------|
| General Knowledge and Theory | 20 |
| National Electrical Code | 10 |
| Lightning Protection | 10 |
| Cathodic Protection | 10 |

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.

This examination is OPEN BOOK.

The following reference materials <u>are</u> allowed in the examination center:

- NFPA 70 National Electrical Code, 2014, or The National Electrical Code Handbook, National Fire Protection Association (NFPA), (800) 344-3555, www.nfpa.org
- New Mexico Electrical Code (NMAC 14.10.4), 2014, www.nmcpr.state.nm.us/NMAC, (505) 476-4700
- NFPA 780 Installation of Lightning Protection Systems, 2004, National Fire Protection Association (NFPA), (800) 344-3555, www.nfpa.org

The following reference materials <u>are not</u> allowed in the examination center:

- American Electricians' Handbook, 16th Edition, 2013, McGraw-Hill, (800) 262-4729, www.books.mcgraw-hill.com
- Ugly's Electrical References, George V. Hart, 2008 or 2011, Jones and Bartlett, (800) 832-0034, www.uglys.net. All items are based on either the 2008 or 2011 editions.
- Handbook of Cathodic Corrosion Protection, 3rd Edition, 1997, W. Von Baekmann, Gulf Publishing Company, (715) 529-4301, www.qulfpub.com
- Control of Pipeline Corrosion, 2nd Edition, 2001, National Association of Corrosion Engineers, (800) 797-6223, http://www.nace.org

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ES-3J Journeyman Low Voltage Special Systems (under 50 Volts)

| # of Questions | % Required to Pass | Time Allowed |
|----------------|-----------------------|--------------|
| 50 | 75% (38 points) | 145 Minutes |

CONTENT OUTLINE

| Subject Area | # of Items |
|-------------------------------------|---------------|
| Grounding and Bonding | 5 |
| Conductors | 4 |
| Electrical Power Conditioning | 2 |
| Electrical and Electronic Knowledge | 9 |
| General Low Voltage | 3 |
| Sound and Video Systems | 5 |
| Intrusion Detection and Alarms | 4 |
| Fire Detection and Alarms | 7 |
| Computer and Data Systems | 5 |
| CCTV Systems | 2 |
| Testing Equipment | 2 |
| CATV and MATV Systems | 2 |

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 <u>are</u> allowed in the examination center:

- NFPA 70 National Electrical Code, 2014, or The National Electrical Code Handbook, National Fire Protection Association (NFPA), (800) 344-3555, www.nfpa.org
- NFPA 72 National Fire Alarm Code, 2010, National Fire Protection Association (NFPA), (800) 344-3555, www.nfpa.org
- New Mexico Electrical Code (NMAC 14.10.4), 2014, www.nmcpr.state.nm.us/NMAC, (505) 476-4700

The following reference materials <u>are not</u> allowed in the examination center:

- Low Voltage Wiring: Security/Fire Alarm Systems, John E. Traister and Terry Kennedy, 2002, 3rd Edition, McGraw-Hill, (800) 262-4729, www.books.mcgraw-hill.com
- Telecommunications Wiring, Clyde Herrick, 2001, 3rd Edition, Prentice-Hall PTR, (800) 382-3419, www.prenhall.com
- Understanding and Servicing Alarm Systems, 1999, 3rd
 Edition, Butterworth-Heinemann (Reed Publishing), (800)
 545-2522, www.bh.com

- Live Sound Reinforcement: A Comprehensive Guide to P.A. and Music Reinforcement Systems and Technology, Scott Hunter Stark, 2002, 2nd Edition, (707) 554-1935, www.courseptr.com/artistpro
- Data, Voice, and Video Cabling, 3rd Edition, 2009, The Fiber Optic Association, Jim Hayes and Paul Rosenberg, www.cengage.com
- Antenna Toolkit, Joe Carr, 2001, 2nd edition, Butterworth-Heinemann (Reed Publishing), (800) 545-2522, www.bh.com

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ES-7J Journeyman Telephone Communication Systems and Telephone Interconnect Systems

| # of Questions | % Required to Pass | Time Allowed |
|----------------|-----------------------|--------------|
| 50 | 75% (38 points) | 135 Minutes |

CONTENT OUTLINE

| Subject Area | # of Items |
|-----------------------------------|---------------|
| Grounding and Bonding | 5 |
| Conductors | 5 |
| Special Occupancies and Equipment | 2 |
| General Electrical Knowledge | 5 |
| Communication Systems | 5 |
| Outside Cabling | 5 |
| Cable Transmission and Reception | 2 |
| Poles | 2 |
| Inside Cabling | 5 |
| Network/Data | 5 |
| Switching | 2 |
| Telephones | 3 |
| Underground Cabling | 4 |

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.

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This examination is OPEN BOOK.

The following reference materials <u>are</u> allowed in the examination center:

- NFPA 70 National Electrical Code, 2014, or The National Electrical Code Handbook, National Fire Protection Association (NFPA), (800) 344-3555, www.nfpa.org
- New Mexico Electrical Code (NMAC 14.10.4), 2014, www.nmcpr.state.nm.us/NMAC, (505) 476-4700
- National Electrical Safety Code C2, 2007, Institute of Electrical and Electronics Engineers, Inc., (732) 981-0060, www.ieee.org

The following reference materials <u>are not</u> allowed in the examination center:

- Telecommunications Wiring, Clyde Herrick, 2001, 3rd Edition, Prentice-Hall PTR, (800) 382-3419, www.prenhall.com
- Lineman's and Cableman's Handbook, Shoemaker and Mack, 12th Edition, 2011, McGraw Hill, 800-262-4729, shop.mcgraw-hill.com
- Direct Current Fundamentals, Stephen L. Herman, 2006, 7th edition, Thomson Delmar Learning, (800) 347-7707, www.delmarlearning.com
- Live Sound Reinforcement: A Comprehensive Guide to P.A. and Music Reinforcement Systems and Technology, Scott Hunter Stark, 2002, 2nd Edition, (707) 554-1935, www.courseptr.com/artistpro
- Data, Voice, and Video Cabling, 3rd Edition, 2009, The Fiber Optic Association, Jim Hayes and Paul Rosenberg, www.cengage.com

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ES-10J Journeyman Water Well Pump Installer

| # of Questions | % Required to Pass | Time Allowed |
|----------------|-----------------------|--------------|
| 50 | 75% (38 points) | 120 Minutes |

CONTENT OUTLINE

| Subject Area | # of Items |
|---|---------------|
| General Knowledge and Electrical Installation | |
| Requirements | 8 |
| Feeders and Branch Circuits | 4 |
| Overcurrent Protection | 3 |
| Grounding and Bonding | 8 |
| Conductors and Cables | 5 |

| Raceways and Boxes | 5 |
|------------------------------|---|
| Panelboards and Switchboards | 5 |
| Motors, Pumps, and Controls | 6 |
| Solar PV Systems | 3 |
| New Mexico Electrical Code | 3 |

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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The following reference materials <u>are</u> allowed in the examination center:

- NFPA 70 National Electrical Code, 2014, or The National Electrical Code Handbook, National Fire Protection Association (NFPA), (800) 344-3555, www.nfpa.org
- New Mexico Electrical Code (NMAC 14.10.4), 2014, www.nmcpr.state.nm.us/NMAC, (505) 476-4700
- National Electrical Safety Code, 2007, Institute of Electrical and Electronics Engineers, Inc., (732) 981-0060, www.ieee.org

The following reference materials <u>are not</u> allowed in the examination center:

- American Electricians' Handbook, 16th Edition, 2013, McGraw- Hill, (800) 262-4729, www.books.mcgraw-hill.com
- Ugly's Electrical References, George V. Hart, 2008 or 2011, Jones and Bartlett, (800) 832-0034, www.uglys.net. All items are based on either the 2008 or 2011 editions.

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ES-10RJ Journeyman Residential Water Well Pump Installer

| # of Questions | % Required to Pass | Time Allowed |
|----------------|-----------------------|--------------|
| 50 | 75% (38 points) | 120 Minutes |



CONTENT OUTLINE

| Subject Area | # of Items |
|---|---------------|
| General Knowledge and Electrical Installation | |
| Requirements | 9 |
| Feeders and Branch Circuits | 5 |
| Overcurrent Protection | 3 |
| Grounding and Bonding | 9 |
| Conductors and Cables | 5 |
| Raceways and Boxes | 5 |
| Panelboards and Switchboards | 3 |
| Motors, Pumps, and Controls | 5 |
| Solar PV Systems | 3 |
| New Mexico Electrical Code | 3 |

REFERENCE LIST

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- NFPA 70 National Electrical Code, 2014, or The National Electrical Code Handbook, National Fire Protection Association (NFPA), (800) 344-3555, www.nfpa.org
- New Mexico Electrical Code (NMAC 14.10.4), 2014, www.nmcpr.state.nm.us/NMAC, (505) 476-4700
- National Electrical Safety Code, 2007, Institute of Electrical and Electronics Engineers, Inc., (732) 981-0060, www.ieee.org

The following reference materials <u>are not</u> allowed in the examination center:

- American Electricians' Handbook, 16th Edition, 2013, McGraw- Hill, (800) 262-4729, www.books.mcgrawhill.com.
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may be tabbed/indexed with permanent tabs only. <u>Temporary tabs</u>, such as Post-It notes, are not allowed and must be removed from the reference before the examination begins.

JG Journeyman Natural Gas Fitter

| # of Questions | % Required to Pass | Time Allowed |
|----------------|-----------------------|--------------|
| 70 | 75% (53 points) | 185 minutes |

CONTENT OUTLINE

| Subject Area | # of Items |
|----------------------------------|---------------|
| General Knowledge and Principles | 12 |
| Piping | 17 |
| Gas Sizing | 12 |
| Controls and Testing | 5 |
| Appliances | 7 |
| Combustion Air | 7 |
| Chimneys, Flues and Vents | 7 |
| Heating Systems | 3 |

REFERENCE LIST

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Candidates may use a silent, non-printing, non-programmable calculator in the examination center.

This examination is OPEN BOOK.

The following reference materials <u>are</u> allowed in the examination center

- Uniform Mechanical Code, 2009, International Association of Plumbing and Mechanical Officials (IAPMO), (800) 854-2766, www.iapmo.org.
- Modern Refrigeration and Air Conditioning, 2014 Edition, The Goodheart-Willcox Company, (800) 323-0440, www.goodheartwillcox.com
- IPT's Pipe Trades Handbook, Robert A. Lee, 1991, IPT Publishing and Training, Ltd., (888) 808-6763, www.iptbooks.com
- Uniform Plumbing Code, 2009, International Association of Plumbing and Mechanical Officials (IAPMO), (800) 854-2766, www.iapmo.org.
- New Mexico Plumbing Code (NMAC 14.8.2), 2009, www.nmcpr.state.nm.us/NMAC, (505) 476-4700
- New Mexico Mechanical Code (NMAC 14.9.2), 2009, www.nmcpr.state.nm.us/NMAC, (505) 476-4700

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Journeyman Natural Gas Fitter Practical Examination

| # of Points | % Required to Pass | Time Allowed |
|-------------|-----------------------|--------------|
| 100 | 75% (75 points) | 120 minutes |

CONTENT OUTLINE

| Subject Area | # of Points |
|--|----------------|
| Natural Gas Project | |
| Light burner and analyze frame | 5 |
| Derate for Altitude | 10 |
| Relight burner & make final adjustments | 5 |
| Steel Pipe Project | |
| Cut, ream, and thread pipe | 5 |
| Correct use of fitting/tools | 5 |
| Correct measurements of assembly | 5 |
| Correct location of fittings | 5 |
| Fitting Identification | 10 |
| Tool Identification | 10 |
| Gas Vent Project | |
| Correctly size vent for single appliance | 10 |
| Correctly size vent for two or more appliances | 10 |
| Polyethylene Pipe Rise Project | |
| Correctly assemble gas riser/P.E. pipe | 5 |
| Install test manifold | 5 |
| Test assembly | 5 |
| Brief explanation of proper installation | 5 |

REFERENCE LIST

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Candidates may use a silent, non-printing, non-programmable calculator in the examination center.

This examination is OPEN BOOK.

The following reference materials <u>are</u> allowed in the examination center

- New Mexico Plumbing Code (NMAC 14.8.2), 2009, www.nmcpr.state.nm.us/NMAC, (505) 476-4700
- Uniform Plumbing Code, 2009, International Association of Plumbing and Mechanical Officials (IAPMO), (800) 854-2766, www.iapmo.org.
- New Mexico Mechanical Code (NMAC 14.9.2), 2009, www.nmcpr.state.nm.us/NMAC, (505) 476-4700

 Uniform Mechanical Code, 2009, International Association of Plumbing and Mechanical Officials (IAPMO), (800) 854-2766, www.iapmo.org.

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JP Journeyman Plumber

| # of Questions | % Required to Pass | Time Allowed |
|----------------|-----------------------|--------------|
| 70 | 75% (53 points) | 185 minutes |

CONTENT OUTLINE

| Subject Area | # of Items |
|---|---------------|
| Drainage Waste and Vents | 21 |
| Water Supply Systems | 6 |
| Backflow Prevention | 4 |
| Storm Drainage Systems | 4 |
| Plumbing Fixtures, Including Water Heaters, Including Accessibility | 8 |
| General Knowledge and General Regulations | 10 |
| Interceptors and Traps | 4 |
| Isometric Analysis | 5 |
| Hydronics | 4 |
| Septic and Sewer | 4 |

REFERENCE LIST

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This examination is OPEN BOOK.

The following reference materials <u>are</u> allowed in the examination center

- New Mexico Plumbing Code (NMAC 14.8.2), 2009, www.nmcpr.state.nm.us/NMAC, (505) 476-4700
- Uniform Plumbing Code, 2009, International Association of Plumbing and Mechanical Officials (IAPMO), (800) 854-2766, www.iapmo.org.



- New Mexico Mechanical Code (NMAC 14.9.2), 2009, www.nmcpr.state.nm.us/NMAC, (505) 476-4700
- IPT's Pipe Trades Handbook, Robert A. Lee, 1991, IPT Publishing and Training, Ltd., (888) 808-6763, www.iptbooks.com
- Uniform Mechanical Code, 2009, International Association of Plumbing and Mechanical Officials (IAPMO), (800) 854-2766, www.iapmo.org

The following reference materials <u>are not</u> allowed in the examination center:

- Mathematics for Plumbers and Pipefitters, Lee Smith, 8th Edition, 2013, www.cengage.com
- New Mexico Liquid Waste Disposal Regulations (NMAC 20.7.3), 2005, www.nmcpr.state.nm.us/NMAC, (505) 476-4700

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Journeyman Plumber Practical Examination

| # of Points | % Required to Pass | Time Allowed |
|-------------|-----------------------|--------------|
| 100 | 75% (75 points) | 120 minutes |

CONTENT OUTLINE

| Subject Area | # of Points |
|--|----------------|
| Copper/PEX Water Piping Assembly | |
| Properly solder copper piping and fittings | 5 |
| Properly assemble PEX and PEX fittings | 5 |
| Air test assembly | 10 |
| Tub Assembly | |
| Assembly of tub drain | 5 |
| Water test of tub drain | 5 |
| Washer Box Assembly | |
| Overall assembly of project | 15 |
| Fitting Identification | 10 |
| Tool Identification | 10 |
| Island Vent Assembly | |
| Measure, cut and ream piping | 10 |
| Correct use of fittings | 10 |
| Drainage Pipe Project | |
| Measure and calculate minimum rise | 5 |
| Set drain to minimum rise | 10 |

REFERENCE LIST

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Candidates may use a silent, non-printing, non-programmable calculator in the examination center.

This examination is OPEN BOOK.

The following reference materials <u>are</u> allowed in the examination center

- New Mexico Plumbing Code (NMAC 14.8.2), 2009 www.nmcpr.state.nm.us/NMAC, (505) 476-4700
- Uniform Plumbing Code, 2009, International Association of Plumbing and Mechanical Officials (IAPMO), (800) 854-2766, www.iapmo.org.
- Uniform Mechanical Code, 2009, International Association of Plumbing and Mechanical Officials (IAPMO), (800) 854-2766, www.iapmo.org

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JPF Journeyman Pipe Fitter

| Ī | # of Questions | % Required to Pass | Time Allowed |
|---|----------------|-----------------------|--------------|
| | 50 | 75% (38 points) | 120 minutes |

CONTENT OUTLINE

| Subject Area | # of Items |
|-----------------------------------|---------------|
| General Knowledge | 22 |
| Piping, Assembly and Installation | 21 |
| Pipe Welding | 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 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 <u>are</u> allowed in the examination center

- Uniform Mechanical Code, 2009, International Association of Plumbing and Mechanical Officials (IAPMO), (800) 854-2766, www.iapmo.org.
- New Mexico Plumbing Code (NMAC 14.8.2), 2009 www.nmcpr.state.nm.us/NMAC, (505) 476-4700
- IPT's Pipe Trades Handbook, Robert A. Lee, 1991, IPT Publishing and Training, Ltd., (888) 808-6763, www.iptbooks.com
- New Mexico Mechanical Code (NMAC 14.9.2), 2009 www.nmcpr.state.nm.us/NMAC, (505) 476-4700

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JR Journeyman Refrigeration

| # of Questions | % Required to Pass | Time Allowed |
|----------------|-----------------------|--------------|
| 50 | 75% (38 points) | 120 minutes |

CONTENT OUTLINE

| Subject Area | # of Items |
|--|---------------|
| Refrigerants and Refrigeration | 10 |
| Refrigeration - Piping, Hydronics, and Process | 18 |
| General Requirements | 5 |
| Components, Controls, and Valves | 6 |
| Tests and Inspections | 6 |
| Safety | 5 |

REFERENCE LIST

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This examination is OPEN BOOK.

The following reference materials <u>are</u> allowed in the examination center

- New Mexico Mechanical Code (NMAC 14.9.2), 2009 www.nmcpr.state.nm.us/NMAC, (505) 476-4700
- New Mexico Plumbing Code (NMAC 14.8.2), 2009 www.nmcpr.state.nm.us/NMAC, (505) 476-4700
- Modern Refrigeration and Air Conditioning, 2014 Edition, The Goodheart-Willcox Company, (800) 323-0440, www.goodheartwillcox.com
- Uniform Mechanical Code, 2009, International Association of Plumbing and Mechanical Officials (IAPMO), (800) 854-2766, www.iapmo.org.
- IPT's Pipe Trades Handbook, Robert A. Lee, 1991, IPT Publishing and Training, Ltd., (888) 808-6763, www.iptbooks.com
- Industrial Refrigeration Handbook, W. F. Stoecker, 1998, McGraw-Hill, (800) 262-4729, www.books.mcgraw-hill.com
- Code of Federal Regulations 29 CFR Part 1926 (OSHA), with latest available amendments, Superintendent of Documents, PO Box 371954, Pittsburgh, PA 15250-7954, 888-293-6498, 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, 3210 E Tropicana, Las Vegas, NV 89121, (800) 733-9267, www.psiexams.com (See order form at the end of the Candidate Information Bulletin.)

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JS Journeyman Sprinkler

| # of Questions | % Required to Pass | Time Allowed |
|----------------|-----------------------|--------------|
| 45 | 75% (34 points) | 120 minutes |

CONTENT OUTLINE

| Subject Area | # of Items |
|---------------------|---------------|
| General Knowledge | 9 |
| Design | 9 |
| Materials | 5 |
| Controls and Wiring | 7 |

(psi) www.psiexams.com

| Excavation | 4 |
|-----------------|---|
| Pumps | 3 |
| Water Supply | 4 |
| Sprinkler Heads | 4 |

REFERENCE LIST

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Candidates may use a silent, non-printing, non-programmable calculator in the examination center.

This examination is OPEN BOOK.

The following reference materials <u>are</u> allowed in the examination center

Simplified Irrigation Design, Pete Melby, 1995, 2nd edition, John Wiley and Sons, Inc., (201) 748-6000, www.wiley.com

Candidates are responsible for bringing their own references to the examination center. Reference materials must be bound, and may be highlighted, underlined, and/or indexed prior to the examination session. Reference materials containing any writing will not be allowed into the examination. References may not be written in 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 (loose or attached) 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 examination begins.

JSM Journeyman Sheet Metal

| # of Questions | % Required to Pass | Time Allowed |
|----------------|-----------------------|--------------|
| 70 | 75% (53 points) | 185 minutes |

CONTENT OUTLINE

| Subject Area | # of Items |
|---|---------------|
| Duct Fabrication | 15 |
| Duct Installation | 15 |
| Ventilation, Combustion Air, and Controls | 20 |
| General Knowledge | 8 |
| Heating and Cooling Appliances | 12 |

REFERENCE LIST

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- New Mexico Mechanical Code (NMAC 14.9.2), 2009, www.nmcpr.state.nm.us/NMAC, (505) 476-4700
- Modern Refrigeration and Air Conditioning, 2014 Edition, The Goodheart-Willcox Company, (800) 323-0440, www.goodheartwillcox.com
- Uniform Mechanical Code, 2009, International Association of Plumbing and Mechanical Officials (IAPMO), (800) 854-2766, www.iapmo.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
- Sheet Metal, Leo A. Meyer, 2006, American Technical Publishers, Inc., (800) 323-3471, www.go2atp.com

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Journeyman Sheet Metal Practical Examination

| # of Points | % Required to Pass | Time Allowed |
|-------------|-----------------------|--------------|
| 100 | 75% (75 points) | 120 minutes |

CONTENT OUTLINE

| Subject Area | # of Points |
|-------------------------------|----------------|
| Field Sketch Scoring | |
| Accurate Dimensions | 15 |
| Correct Duct Length | 20 |
| Sizes and Connectors | 10 |
| Neatness | 5 |
| Mock Up Scoring | |
| Duct Joint Correct Length | 20 |
| Fittings Installed Correctly | 20 |
| Properly Installed Connectors | 5 |
| Overall Appearance | 5 |

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REFERENCE LIST

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- Uniform Mechanical Code, 2009, International Association of Plumbing and Mechanical Officials (IAPMO), (800) 854-2766, www.iapmo.org.

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MS-12J Journeyman Fire Protection Systems

| # of Questions | % Required to Pass | Time Allowed |
|----------------|-----------------------|--------------|
| 50 | 75% (38 points) | 110 Minutes |

CONTENT OUTLINE

| Code i e et Aure e | # of |
|---|-------|
| Subject Area | Items |
| Backflow Prevention | 2 |
| Hydraulic Calculations and Design | 2 |
| Residential Systems | 3 |
| Firepumps and Standpipes | 5 |
| Sprinkler Systems | 10 |
| Water Supply, Storage, and Distribution | 4 |
| General and Code Knowledge | 10 |
| Materials and Methods | 4 |
| Testing and Inspections (NFPA 25) | 10 |

REFERENCE LIST

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This examination is OPEN BOOK.

The following reference materials <u>are</u> allowed in the examination center:

- NFPA 13 Installation of Sprinkler Systems, 2007, National Fire Protection Association (NFPA), (800) 344-3555, www.nfpa.org
- NFPA 72 National Fire Alarm Code, 2010, National Fire Protection Association (NFPA), (800) 344-3555, www.nfpa.org
- NFPA 13R Sprinkler Systems for Residential Occupancies Up To and Including Four Stories in Height, 2002, National Fire Protection Association (NFPA), (800) 344-3555, www.nfpa.org
- NFPA 15 Water Spray Fixed Systems for Fire Protection, 2007, National Fire Protection Association (NFPA), (800) 344-3555, www.nfpa.org
- NFPA 14 Installation of Standpipe, Private Hydrant, and Hose, 2007, National Fire Protection Association (NFPA), (800) 344-3555, www.nfpa.org
- NFPA 20 Standard for the Installation of Stationary Pumps for Fire Protection, 2007, National Fire Protection Association (NFPA), (800) 344-3555, www.nfpa.org
- NFPA 13D Sprinklers, One- and Two-Family Dwellings and Manufactured Housing, 2002, National Fire Protection Association (NFPA), (800) 344-3555, www.nfpa.org
- Uniform Plumbing Code, 2009, International Association of Plumbing and Mechanical Officials (IAPMO), (800) 854-2766, www.iapmo.org.
- NFPA 25 Inspection, Testing, and Maintenance of Water Based Fire Protection Systems, 2002, National Fire Porection Association (NFPA), (800) 344-3555, www.nfpa.org
- NFPA 24: Standard for the Installation of Private Fire Service Mains and Their Appurtenances, 2007, National Fire Porection Association (NFPA), (800) 344-3555, www.nfpa.org

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MS-14J Journeyman Dry Chemical Fire Protection

| # of Questions | % Required to Pass | Time Allowed |
|----------------|-----------------------|--------------|
| 50 | 75% (38 points) | 90 Minutes |

CONTENT OUTLINE

| Subject Area | # of Items |
|--------------------------------------|---------------|
| Clean Agents And Alternative Systems | 17 |
| Foam Systems | 5 |
| Wet Chemical Systems | 8 |
| Dry Chemical Systems | 6 |
| Carbon Dioxide Systems | 2 |
| Portable Fire Extinguishers | 4 |
| Commercial Kitchen Equipment | 8 |

REFERENCE LIST

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This examination is OPEN BOOK.

The following reference materials <u>are</u> allowed in the examination center:

- NFPA 72 National Fire Alarm Code, 2010, National Fire Protection Association (NFPA), (800) 344-3555, www.nfpa.org
- NFPA 10 Standard for Portable Fire Extinguishers, 2007, National Fire Protection Association (NFPA), (800) 344-3555, www.nfpa.org
- NFPA 11 Standard for Low-Expansion Foam, 2005, National Fire Protection Association (NFPA), (800) 344-3555, www.nfpa.org
- NFPA 12A: Standard on Halon 1301 Fire Extinguishing Systems, 2009. National Fire Protection Association, 1 Batterymarch Park, P.O. Box 9101, Quincy, MA 02269-9101, www.nfpa.org
- NFPA 17 Standard for Dry Chemical Extinguishing Systems, 2009, National Fire Protection Association (NFPA), (800) 344-3555, www.nfpa.org
- NFPA 17A Standard for Wet Chemical Extinguishing Systems, 2009, National Fire Protection Association (NFPA), (800) 344-3555, www.nfpa.org
- NFPA 96 Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations, 2008, National Fire Protection Association (NFPA), (800) 344-3555, www.nfpa.org
- Uniform Plumbing Code, 2009, International Association of Plumbing and Mechanical Officials (IAPMO), (800) 854-2766, www.iapmo.org.

- Uniform Mechanical Code, 2009, International Association of Plumbing and Mechanical Officials (IAPMO), (800) 854-2766, www.iapmo.org.
- NFPA 2001: Standard for Clean Agent Fire Extinguishing Systems, 2008, National Fire Protection Association (NFPA), (800) 344-3555, www.nfpa.org
- NFPA 12: Standard on Carbon Dioxide Extinguishing Systems, 2008, National Fire Protection Association (NFPA), (800) 344-3555, www.nfpa.org

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NEW MEXICO JOURNEYMAN EXAMINATION REGISTRATION FORM

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The fee is for \underline{each} examination, whether you are taking the examination for the first time or repeating. **EXAMINATION FEES ARE NOT REFUNDABLE OR TRANSFERABLE.**

| Code | Examination Name | Fee | | |
|---------|---|----------|--|--|
| BO1 | Journeyman Boiler Operator | \$68.88 | | |
| BO2 | Journeyman Boiler Operator | \$68.88 | | |
| | Exam Combination Fee | \$137.76 | | |
| EL-1J | Journeyman Electrical Distribution Systems including Transmission Lines | \$68.88 | | |
| ER-1J | Journeyman Residential Electrical Wiring (Part 1) Written | \$68.88 | | |
| ER-1J | Journeyman Residential Electrical Wiring (Part 2) Written | \$68.88 | | |
| | Residential Journeyman Electrician Practical | \$68.88 | | |
| | Exam Combination Fee | \$206.64 | | |
| ES-1J | Journeyman Electrical Signs and Outline Lighting | \$68.88 | | |
| ES-2J | Journeyman Cathodic Protection, and Lightning Protection Systems | \$68.88 | | |
| ES-3J | Journeyman Low Voltage Special Systems (Under 50 Volts) | \$68.88 | | |
| ES-7J | Journeyman Telephone Communication Systems and Telephone Interconnect | \$68.88 | | |
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| ES-10RJ | Journeyman Residential Water Well Pump Installer | \$68.88 | | |
| E-98J | | | | |
| E-98J | Journeyman Residential and Commercial Electrical (Part 2) Written | \$68.88 | | |
| | Journeyman Residential and Commercial Electrical Practical | \$68.88 | | |
| | Exam Combination Fee | \$206.64 | | |
| JS | Journeyman Sprinklers | \$68.88 | | |
| JG | Journeyman Natural Gas Fitter Written | \$68.88 | | |
| | Journeyman Natural Gas Fitter Practical | \$68.88 | | |
| | Exam Combination Fee | \$137.76 | | |
| IPF | Journeyman Pipe Fitter | \$68.88 | | |
| JP | Journeyman Plumber Written | \$68.88 | | |
| | Journeyman Plumber Practical | \$68.88 | | |
| | Exam Combination Fee | \$137.76 | | |
| JR | Journeyman Refrigeration | \$68.88 | | |
| ISM | Journeyman Sheet Metal Written | \$68.88 | | |
| | Journeyman Sheet Metal Practical | \$68.88 | | |
| | Exam Combination Fee | \$137.76 | | |
| MS-12J | Journeyman Fire Protection Systems | \$68.88 | | |
| MS-14J | Journeyman Dry Chemical Fire Protection | \$68.88 | | |

CANDIDATES MUST BE PRE-APPROVED TO TAKE ANY EXAMINATION. Go to www.public.psiexams.com to get the application forms. This form is used for payment of the examination only. Please fill out the next page.



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SPECIAL ARRANGEMENT REQUEST FORM OR OUT-OF-STATE TESTING REQUEST

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 special examination arrangements.

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

Requirements for special arrangement 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

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| Out-of-State Testing Reque require additional documer | | | |
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- Complete and fax this form, along with supporting documentation, to (702) 932-2666.
- After 4 business days, please call (800) 367-1565, ext 6750 and leave a voice message.
- PSI Special Accommodations will call you back to schedule the examination within 48 hours.

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