



# STATE OF NEW MEXICO

## CONTRACTOR EXAMINATIONS CANDIDATE INFORMATION BULLETIN

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Please refer to our website to check for the most updated information at <https://test-takers.psiexams.com/nmcon>

## EXAMINATIONS BY PSI

This Candidate Information Bulletin provides you with information about the approval and examination process for contractor licensure in the State of New Mexico.

**Candidates must be preapproved to take any examination. Please refer to [public.psiexams.com](https://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 pre-approved.

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 only take the following examinations twice during the 6-month eligibility period.

NM Electrical Inspector (General)  
NM Residential Electrical Inspector  
NM General Building Inspector  
NM Mechanical Inspector  
NM Plumbing Inspector  
NM Residential Inspector

For all other examinations, 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 1<sup>st</sup> 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 exams using the Internet. Candidates register online by accessing PSI's registration website at <https://test-takers.psiexams.com/nmcon>. Internet registration is available 24 hours a day.

Log onto PSI's website and select *Sign in / Create Account*. Select *Create Account*. You are 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 (855) 807-3994 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 (855) 807-3994, Monday through Friday between 5:30 am and 8:00 pm, and Saturday-Sunday between 7:00 am and 3:30 pm, Mountain Time.

## 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 (855) 807-3994 or use the PSI Website.

**Note: A voicemail or email message is NOT an acceptable form of cancellation. Please use the PSI Website or call PSI to speak directly 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.

## EXAM ACCOMMODATIONS

All PSI 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. A candidate with a disability or a candidate who would otherwise have difficulty taking the examination should request for alternative arrangements by [Clicking Here](#).

**Candidates granted accommodation in accordance with the ADA, MUST schedule their examination by telephone and speak directly with a PSI registrar.**

| Examination Name  | Examination Fee                                   |
|---|---|
| Business and Law Exam (REQUIRED OF ALL NEW CANDIDATES)  | \$68.88   |
| Inspector Exams <input type="checkbox"/> General Building <input type="checkbox"/> Electrical <input type="checkbox"/> Mechanical<br><input type="checkbox"/> Residential <input type="checkbox"/> Plumbing <input type="checkbox"/> Residential Electrical   | \$68.88   |
| Trade Exams   |   |
| Check the trade category for which you have been approved and are registering to take the exam: ( <b>Note:</b> All GF candidates taking one or more of the GF categories must also take the <b>GF Core</b> examination. *There is no charge for the GF Core exam. Check the appropriate box.) The fee is for first time or retakes.<br><br><input type="checkbox"/> GA-1 <input type="checkbox"/> GA-2 <input type="checkbox"/> GA-3 <input type="checkbox"/> GA-4 <input type="checkbox"/> GA-5 <input type="checkbox"/> *GF Core <input type="checkbox"/> GF-1 <input type="checkbox"/> GF-2 <input type="checkbox"/> GF-3 <input type="checkbox"/> GF-4<br><input type="checkbox"/> GF-5 <input type="checkbox"/> GF-7 <input type="checkbox"/> GF-8 <input type="checkbox"/> GF-9 <input type="checkbox"/> GS-4 <input type="checkbox"/> GS-6 <input type="checkbox"/> GS-7 <input type="checkbox"/> GS-8 <input type="checkbox"/> GS-9 <input type="checkbox"/> GS-10<br><input type="checkbox"/> GS-16 <input type="checkbox"/> GS-21 <input type="checkbox"/> GS-24 <input type="checkbox"/> GS-25 <input type="checkbox"/> GS-30<br><input type="checkbox"/> EL-1 <input type="checkbox"/> ES-1 <input type="checkbox"/> ES-2 <input type="checkbox"/> ES-3 <input type="checkbox"/> ES-7 <input type="checkbox"/> ES-10 <input type="checkbox"/> ES-10J <input type="checkbox"/> ES-10R<br><input type="checkbox"/> MM-1 <input type="checkbox"/> MM-2 <input type="checkbox"/> MM-3 <input type="checkbox"/> MM-4 <input type="checkbox"/> MS-3 <input type="checkbox"/> MS-6 <input type="checkbox"/> MS-12 <input type="checkbox"/> MS-14 | \$68.88 each<br><br>(*no charge for GF Core exam) |
| Retake<br><input type="checkbox"/> EE-98 Part 1 <input type="checkbox"/> EE-98 Part 2 <input type="checkbox"/> EE-98 Part 3   | \$89.69   |
| Retake<br><input type="checkbox"/> GB-98 Part 1 <input type="checkbox"/> GB-98 Part 2   | \$134.53  |
| ER-1  | \$107.63  |
| GB-2  | \$134.53  |
| <b>Combination Exams</b>  |   |
| GB-98 Exam (two-part test) Includes the GB-2 exam   | \$269.06  |
| EE-98 Exam (three-part test)  | \$269.06  |

**Note: You must take and pass all parts of the combination exams. If you do not pass all parts of an exam, you need to retake only the part(s) you did not pass.**

### 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 (855) 807-3994. 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**

2820 Broadbent Pkwy NE, Suites E & F  
Albuquerque, NM 87107

*From I-40 W take exit 159D, follow Frontage Rd. N to Menaul Blvd NE, make a left onto Menaul Blvd NE, make a right onto Broadbent Pkwy NE. Building will be on the right.*

#### **Farmington**

1307 E. 20th St.  
Farmington, NM 87401

*From E. Main St, turn RIGHT on Sullivan and turn LEFT on 20th St. We are next door to the County Republican Party office and across the street from Planned Parenthood. No Sign on the building. The sign is on the door. The office is between Zuni and Santiago streets on the south side of 20th St. If you pass Dave's Sports Shop or Fatboy's Restaurant, you've gone too far.*

#### **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 Hwy 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 3<sup>rd</sup> 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 45<sup>th</sup> St and turn right. Turn left at the 2<sup>nd</sup> 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<sup>nd</sup> St.

### 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 Strip.

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 following the instructions on the Out-Of-State Request Form 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 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

Candidates need to provide one (1) form of identification.

Candidates must register for the exam with their LEGAL first and last name as it appears on their government issued identification. All required identification below must match

the first and last name under which the candidate is registered. Candidates are required to bring one (1) form of valid (non-expired) signature bearing identification to the test site.

### PRIMARY IDENTIFICATION (with photo) - Choose One

- State issued driver's license
  - State issued identification card
  - US Government Issued Passport
  - US Government Issued Military Identification Card
  - US Government Issued Alien Registration Card
  - Canadian Government Issued ID
- NOTE: ID must contain candidate's photo, be valid and unexpired.

If the candidate fails to bring proper identification or the candidate names do not match, the candidates will not be allowed to test and their examination fee will not be refunded.

### SECURITY PROCEDURES

The following security procedures will apply during the examination:

- Candidates may take only approved items into the examination room.
- All personal belongings of candidates 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. For security purposes outerwear such as, but not limited to: open sweaters, cardigans, shawls, scarves, vests, jackets and coats are not permitted in the testing room. **In the event you are asked to remove the outerwear, appropriate attire, such as a shirt or blouse should be worn underneath.**
  - **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.

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 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.

### DUPLICATE SCORE REPORTS

You may request a duplicate score report after your examination by emailing [scorereport@psionline.com](mailto:scorereport@psionline.com).

## TAKING THE EXAM BY COMPUTER

### 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

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.

### 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 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 department may re-evaluate candidate results and adjust

## 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.psonlinestore.com](http://www.psonlinestore.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.

- *New Mexico Contractor's License Requirement (NMAC Title 14, Chapter 6, Part 3)*, 2006, New Mexico Commission of Public Records, (505) 476-7900, <https://www.srca.nm.gov/nmac-home/nmac-titles/>

Contractor only: In addition to the trade-specific examination(s) you must either pass the Business and Law offered by PSI or take an "approved" Business and Law Course. Please see the list of schools that offer an approved course at [public.psiexams.com](http://public.psiexams.com). The State of New Mexico or PSI does NOT sponsor these schools.

You must pass the Business and Law examination and the Trade examination within 1 year. For example, if you pass the Trade examination and fail the Business and Law examination, you must retake and pass the Business and Law examination within 1 year of the pass date on the Trade examination.

### **Business and Law Examination**

| # of Questions | % Required to Pass | Time Allowed |
|----------------|--------------------|--------------|
| 50             | 75% (38 points)    | 130 Minutes  |

### **CONTENT OUTLINE**

| Subject Area                                   | # of Items |
|--|------------|
| Licensing Requirements                         | 8          |
| Estimating and Bidding                         | 5          |
| Business Organization and Financial Management | 8          |
| Tax Laws                                       | 5          |
| Labor Laws                                     | 4          |
| Project Management and Lien Law                | 5          |
| Contracts                                      | 8          |
| Risk Management                                | 4          |
| Environmental and Safety                       | 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 are allowed in the examination center:**

- *NASCLA Contractors Guide to Business, Law and Project Management*, Basic 14<sup>th</sup> Edition, National Association of State Contractors Licensing Agencies (NASCLA), Telephone: (623) 587-9354, [www.nascla.org](http://www.nascla.org)
- *New Mexico Construction Industries Licensing Act (NMSA Chapter 60, Article 13)*, 2006, Conway Greene Co., (216) 619-8091

### **Electrical Inspector (General)**

| # of Questions | % Required to Pass | Time Allowed |
|----------------|--------------------|--------------|
| 80             | 75% (60 points)    | 210 Minutes  |

### **CONTENT OUTLINE**

| Subject Area  | # of Items |
|---|------------|
| General Knowledge and Electrical Installation Requirements      | 8          |
| Services, Feeders, and Branch Circuits                          | 10         |
| Overcurrent Protection  | 6          |
| Grounding and Bonding   | 9          |
| Conductors and Cables   | 8          |
| Raceways and Boxes  | 7          |
| Hazardous Locations, Special Occupancies, and Special Equipment | 8          |
| Lighting, Signs, and General-Use Equipment                      | 6          |
| Motors, Transformers, and Generators                            | 6          |
| New Mexico State Code   | 6          |
| Low Voltage   | 6          |

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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 are allowed in the examination center:**

- *NFPA 70 - National Electrical Code, 2020, or The National Electrical Code Handbook*, National Fire Protection Association (NFPA), (800) 344-3555, [www.nfpa.org](http://www.nfpa.org)
- *New Mexico Electrical Code (NMAC 14.10.4)*, 2020, <https://www.srca.nm.gov/nmac-home/nmac-titles/>, (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.

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### General Building Inspector

### Mechanical Inspector

| # of Questions | % Required to Pass | Time Allowed |
|----------------|--------------------|--------------|
| 50             | 75% (38 points)    | 150 Minutes  |

| # of Questions | % Required to Pass | Time Allowed |
|----------------|--------------------|--------------|
| 50             | 75% (38 points)    | 125 Minutes  |

#### CONTENT OUTLINE

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| Subject Area                        | # of Items |
|-------------------------------------|------------|
| Sitework, Footings, and Foundations | 10         |
| Concrete and Concrete Reinforcement | 4          |
| Masonry                             | 4          |
| Carpentry                           | 12         |
| Metals                              | 4          |
| Roofing                             | 8          |
| Associated Trades                   | 4          |
| General Code                        | 4          |

| Subject Area                          | # of Items |
|---------------------------------------|------------|
| General Knowledge                     | 6          |
| Piping - Refrigeration, Gas, Hydronic | 10         |
| Gas Sizing                            | 2          |
| Controls and Testing                  | 4          |
| Appliances - Heating and Cooling      | 10         |
| Combustion Air                        | 5          |
| Chimneys, Flues and Vents             | 7          |
| Ducts                                 | 6          |

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

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This examination is OPEN BOOK.

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*The following reference materials are allowed in the examination center:*

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- *New Mexico Residential Building Code (NMAC 14.7.3), 2021, <https://www.srca.nm.gov/nmac-home/nmac-titles/>, (505) 476-4700*
- *New Mexico Commercial Building Code (NMAC 14.7.2), 2021, <https://www.srca.nm.gov/nmac-home/nmac-titles/>*
- *International Building Code, 2021, International Code Council, (800) 786-4452, [www.iccsafe.org](http://www.iccsafe.org).*
- *International Residential Code for One- and Two-Family Dwellings, 2021, International Code Council, (800) 786-4452, [www.iccsafe.org](http://www.iccsafe.org)*

- *New Mexico Mechanical Code (NMAC 14.9.2), 2015, <https://www.srca.nm.gov/nmac-home/nmac-titles/>, (505) 476-4700.*
- *Uniform Mechanical Code, 2021, International Association of Plumbing and Mechanical Officials (IAPMO), (800) 854-2766, [www.iapmo.org](http://www.iapmo.org).*
- *New Mexico Plumbing Code (NMAC 14.8.2), 2015, <https://www.srca.nm.gov/nmac-home/nmac-titles/>, (505) 476-4700.*
- *Uniform Plumbing Code, 2021, International Association of Plumbing and Mechanical Officials (IAPMO), (800) 854-2766, [www.iapmo.org](http://www.iapmo.org).*

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)

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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.

### Plumbing Inspector

| # of Questions | % Required to Pass | Time Allowed |
|----------------|--------------------|--------------|
| 75             | 75% (57 points)    | 200 Minutes  |

#### CONTENT OUTLINE

| Subject Area                               | # of Items |
|--|------------|
| Drainage Waste and Vents                   | 20         |
| Water Supply Systems                       | 10         |
| Backflow Prevention                        | 8          |
| Storm Drainage Systems                     | 5          |
| Plumbing Fixtures, Including Water Heaters | 9          |
| General Regulations                        | 12         |
| Interceptors and Traps                     | 6          |
| Septic and Sewer                           | 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.

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

This examination is OPEN BOOK.

**The following reference materials are allowed in the examination center:**

- *New Mexico Plumbing Code* (NMAC 14.8.2), 2015, <https://www.srca.nm.gov/nmac-home/nmac-titles/>, (505) 476-4700.
- *Uniform Plumbing Code, 2021*, International Association of Plumbing and Mechanical Officials (IAPMO), (800) 854-2766, [www.iapmo.org](http://www.iapmo.org).
- *NFPA 54 - National Fuel Gas Code*, 2015, National Fire Protection Association (NFPA), (800) 344-3555, [www.nfpa.org](http://www.nfpa.org).
- *New Mexico Liquid Waste Disposal Regulations* (NMAC 20.7.3), 2005, <https://www.srca.nm.gov/nmac-home/nmac-titles/>, (505) 476-4700
- *New Mexico Mechanical Code* (NMAC 14.9.2), 2015, <https://www.srca.nm.gov/nmac-home/nmac-titles/>, (505) 476-4700.
- *Uniform Mechanical Code, 2021*, International Association of Plumbing and Mechanical Officials (IAPMO), (800) 854-2766, [www.iapmo.org](http://www.iapmo.org).

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### Residential Electrical Inspector

| # 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 | 7          |
| Services, Feeders, and Branch Circuits                     | 10         |
| Overcurrent Protection                                     | 4          |
| Grounding and Bonding                                      | 6          |
| Conductors and Cables                                      | 7          |
| Raceways and Boxes   | 5          |
| Special Occupancies and Special Equipment, including Pools | 2          |
| Lighting and General-Use Equipment                         | 2          |
| New Mexico State Code                                      | 5          |
| Low Voltage  | 2          |

#### REFERENCE LIST

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This examination is OPEN BOOK.

**The following reference materials are allowed in the examination center:**

- *NFPA 70 - National Electrical Code, 2020, or The National Electrical Code Handbook*, National Fire Protection Association (NFPA), (800) 344-3555, [www.nfpa.org](http://www.nfpa.org)
- *New Mexico Electrical Code* (NMAC 14.10.4), 2020, <https://www.srca.nm.gov/nmac-home/nmac-titles/>, (505) 476-4700



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### Residential Inspector

| # of Questions | % Required to Pass | Time Allowed |
|----------------|--------------------|--------------|
| 40             | 75% (30 points)    | 100 Minutes  |

#### CONTENT OUTLINE

| Subject Area                        | # of Items |
|-------------------------------------|------------|
| Sitework, Footings, and Foundations | 4          |
| Concrete and Concrete Reinforcement | 5          |
| Masonry                             | 5          |
| Carpentry                           | 8          |
| Roofing                             | 15         |
| General 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.

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

This examination is OPEN BOOK.

**The following reference materials are allowed in the examination center:**

- New Mexico Administrative Code Title 14, 2015
- *New Mexico Residential Building Code* (NMAC 14.7.3), 2021, <https://www.srca.nm.gov/nmac-home/nmac-titles/>, (505) 476-4700
- *New Mexico Commercial Building Code* (NMAC 14.7.2), 2021, <https://www.srca.nm.gov/nmac-home/nmac-titles/>, (505) 476-4700
- *International Residential Code for One- and Two-Family Dwellings*, 2021, International Code Council, (800) 786-4452, [www.iccsafe.org](http://www.iccsafe.org)

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

### EE-98 Residential and Commercial Electrical Part 1 (Commercial and Industrial)

| # of Questions | % Required to Pass | Time Allowed |
|----------------|--------------------|--------------|
| 80             | 75% (60 points)    | 200 Minutes  |

#### CONTENT OUTLINE

| Subject Area  | # of Items |
|---|------------|
| General Knowledge and Electrical Installation Requirements      | 13         |
| Services, Feeders, and Branch Circuits                          | 10         |
| Overcurrent Protection  | 5          |
| Grounding and Bonding   | 10         |
| Conductors and Cables   | 8          |
| Raceways and Boxes  | 8          |
| Hazardous Locations, Special Occupancies, and Special Equipment | 10         |
| Lighting, Signs, and General-Use Equipment                      | 6          |
| Motors, Transformers, and Generators                            | 6          |
| New Mexico State Code   | 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.

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This examination is OPEN BOOK.

**The following reference materials are allowed in the examination center:**

- *NFPA 70 - National Electrical Code, 2020, or The National Electrical Code Handbook*, National Fire Protection Association (NFPA), (800) 344-3555, [www.nfpa.org](http://www.nfpa.org)
- *New Mexico Electrical Code* (NMAC 14.10.4), 2020, <https://www.srca.nm.gov/nmac-home/nmac-titles/>, (505) 476-4700
- *National Electrical Safety Code*, 2007, Institute of Electrical and Electronics Engineers, Inc., (732) 981-0060, [www.ieee.org](http://www.ieee.org)

The following reference materials are not allowed in the examination center:

- *American Electricians' Handbook*, Croft, Hartwell, and Summers, 17th Edition, 2021, McGraw-Hill, (800) 262-4729, [www.amazon.com](http://www.amazon.com)
- *Ugly's Electrical References*, George V. Hart, 2008, 2011, or 2014 edition, Jones and Bartlett, (800) 832-0034, [www.uglys.net](http://www.uglys.net)
- *Lineman's and Cableman's Handbook*, Shoemaker and Mack, 14th Edition, McGraw Hill, (800) 262-4729, [www.amazon.com](http://www.amazon.com)

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### EE-98 Residential and Commercial Electrical Part 2 (Residential)

| # of Questions | % Required to Pass | Time Allowed |
|----------------|--------------------|--------------|
| 40             | 75% (30 points)    | 100 Minutes  |

#### CONTENT OUTLINE

| Subject Area   | # of Items |
|--|------------|
| General Knowledge and Electrical Installation Requirements | 7          |
| Services, Feeders, and Branch Circuits                     | 8          |
| Overcurrent Protection                                     | 3          |
| Grounding and Bonding                                      | 4          |
| Conductors and Cables                                      | 4          |
| Raceways and Boxes   | 4          |
| Special Occupancies and Special Equipment, including Pools | 3          |
| Lighting and General-Use Equipment                         | 3          |
| New Mexico State Code                                      | 4          |

#### REFERENCE LIST

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- *NFPA 70 - National Electrical Code, 2020, or The National Electrical Code Handbook*, National Fire Protection Association (NFPA), (800) 344-3555, [www.nfpa.org](http://www.nfpa.org)
- *New Mexico Electrical Code (NMAC 14.10.4)*, 2020, <https://www.srca.nm.gov/nmac-home/nmac-titles/>, (505) 476-4700

The following reference materials are not allowed in the examination center:

- *American Electricians' Handbook*, Croft, Hartwell, and Summers, 17th Edition, 2021, McGraw-Hill, (800) 262-4729, [www.amazon.com](http://www.amazon.com)
- *Ugly's Electrical References*, George V. Hart, 2008, 2011, or 2014 edition, Jones and Bartlett, (800) 832-0034, [www.uglys.net](http://www.uglys.net)

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### EE-98 Residential and Commercial Electrical Part 3 (Specialties)

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

## CONTENT OUTLINE

| Subject Area   | # of Items |
|--|------------|
| Low Voltage, including Alarms                        | 20         |
| Electrical Signs and Outline Lighting                | 5          |
| Cathodic Protection and Lightning Protection Systems | 5          |
| Telephone and Computer Systems                       | 10         |
| Sound and Communication Systems                      | 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.

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This examination is OPEN BOOK.

**The following reference materials are allowed in the examination center:**

- *NFPA 72 - National Fire Alarm Code*, 2010, National Fire Protection Association (NFPA), (800) 344-3555, [www.nfpa.org](http://www.nfpa.org)
- *NFPA 70 - National Electrical Code, 2020, or The National Electrical Code Handbook*, National Fire Protection Association (NFPA), (800) 344-3555, [www.nfpa.org](http://www.nfpa.org)

**The following reference materials are not allowed in the examination center:**

- *American Electricians' Handbook*, Croft, Hartwell, and Summers, 17th Edition, 2013 or 2021, McGraw-Hill, (800) 262-4729, [www.amazon.com](http://www.amazon.com)
- *Telecommunications Wiring*, Clyde Herrick, 2001, 3<sup>rd</sup> Edition, Prentice-Hall PTR, (800) 382-3419, [www.prenhall.com](http://www.prenhall.com)
- *Understanding and Servicing Alarm Systems*, 1999, 3<sup>rd</sup> Edition, Butterworth-Heinemann (Reed Publishing), (800) 545-2522, [www.bh.com](http://www.bh.com)
- *Ugly's Electrical References*, George V. Hart, 2008, 2011, or 2014 edition, Jones and Bartlett, (800) 832-0034, [www.uglys.net](http://www.uglys.net)
- *Telecommunications Distribution Methods Manual*, 2024, 10<sup>th</sup> or 15<sup>th</sup> Edition, BICSI, (813) 979-1991, [www.bicsi.org](http://www.bicsi.org)
- *NFPA 75 - Standard for the Protection of Electronic Computer/Data Processing Equipment*, 2003, National Fire Protection Association (NFPA), (800) 344-3555, [www.nfpa.org](http://www.nfpa.org)
- *Live Sound Reinforcement: A Comprehensive Guide to P.A. and Music Reinforcement Systems and Technology -OR- Live Sound Reinforcement, Bestseller Edition*, Scott Hunter Stark, [www.amazon.com](http://www.amazon.com)
- *Data, Voice, and Video Cabling*, 3<sup>rd</sup> Edition, 2009, The Fiber Optic Association, Jim Hayes and Paul Rosenberg, [www.cengage.com](http://www.cengage.com)

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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.

## EL-1 Electrical Distribution Systems, including Transmission Lines

| # of Questions | % Required to Pass | Time Allowed |
|----------------|--------------------|--------------|
| 100            | 75% (75 points)    | 265 Minutes  |

## CONTENT OUTLINE

| Subject Area   | # of Items |
|--|------------|
| General Knowledge and Electrical Installation Requirements | 12         |
| Electrical Supply/Substations                              | 6          |
| Transformers   | 12         |
| Conductors   | 12         |
| Poles and Structures                                       | 10         |
| Grounding Methods  | 10         |
| Overhead   | 8          |
| Underground  | 8          |
| Equipment and Safety                                       | 12         |
| Equipment over 600 Volts                                   | 10         |

## REFERENCE LIST

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- *NFPA 70 - National Electrical Code, 2020, or The National Electrical Code Handbook*, National Fire Protection Association (NFPA), (800) 344-3555, [www.nfpa.org](http://www.nfpa.org)
- *New Mexico Electrical Code (NMAC 14.10.4)*, 2020, <https://www.srca.nm.gov/nmac-home/nmac-titles/>, (505) 476-4700
- *National Electrical Safety Code*, 2007, Institute of Electrical and Electronics Engineers, Inc., (732) 981-0060, [www.ieee.org](http://www.ieee.org)

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- *Lineman's and Cableman's Handbook*, Shoemaker and Mack, 14th Edition, McGraw Hill, (800) 262-4729, [www.amazon.com](http://www.amazon.com)

- *NFPA 70 - National Electrical Code, 2020, or The National Electrical Code Handbook*, National Fire Protection Association (NFPA), (800) 344-3555, [www.nfpa.org](http://www.nfpa.org)
- *New Mexico Electrical Code (NMAC 14.10.4)*, 2020, <https://www.srca.nm.gov/nmac-home/nmac-titles/>, (505) 476-4700

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- *Ugly's Electrical References*, George V. Hart, 2008, 2011, or 2014 edition, Jones and Bartlett, (800) 832-0034, [www.uglys.net](http://www.uglys.net)

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### ER-1 Residential Electrical Wiring

| # of Questions | % Required to Pass | Time Allowed |
|----------------|--------------------|--------------|
| 80             | 75% (60 points)    | 180 Minutes  |

#### CONTENT OUTLINE

| Subject Area   | # of Items |
|--|------------|
| General Knowledge and Electrical Installation Requirements | 17         |
| Services, Feeders, and Branch Circuits                     | 17         |
| Overcurrent Protection                                     | 4          |
| Grounding and Bonding                                      | 8          |
| Conductors and Cables                                      | 9          |
| Raceways and Boxes   | 9          |
| Special Occupancies and Special Equipment, including Pools | 3          |
| Lighting and General-Use Equipment                         | 3          |
| New Mexico State Code                                      | 6          |
| Low Voltage  | 4          |

#### REFERENCE LIST

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This examination is OPEN BOOK.

**The following reference materials are allowed in the examination center:**

### ES-1 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 | 15         |
| Wiring and Protection        | 8          |
| Wiring Methods and Material  | 12         |
| Equipment For General Use    | 5          |
| Special Occupancies          | 5          |
| Special Equipment            | 5          |

#### REFERENCE LIST

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- NFPA 70 - National Electrical Code, 2020, or The National Electrical Code Handbook, National Fire Protection Association (NFPA), (800) 344-3555, [www.nfpa.org](http://www.nfpa.org)
- New Mexico Electrical Code (NMAC 14.10.4), 2020, <https://www.srca.nm.gov/nmac-home/nmac-titles/>, (505) 476-4700

The following reference materials are not allowed in the examination center:

- Neon Techniques, Wayne Strattman, 2003, 4th edition, ST Publications, Inc., (800) 925-1110, [www.amazon.com](http://www.amazon.com)
- American Electricians' Handbook, Croft, Hartwell, and Summers, 17th Edition, 2021, McGraw-Hill, (800) 262-4729, [www.amazon.com](http://www.amazon.com)

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## ES-2 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 Electrical Knowledge | 15         |
| National Electrical Code     | 15         |
| 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.

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This examination is OPEN BOOK.

The following reference materials are allowed in the examination center:

- NFPA 70 - National Electrical Code, 2020, or The National Electrical Code Handbook, National Fire Protection Association (NFPA), (800) 344-3555, [www.nfpa.org](http://www.nfpa.org)
- NFPA 780 - Installation of Lightning Protections Systems, 2004, National Fire Protection Association (NFPA), (800) 344-3555, [www.nfpa.org](http://www.nfpa.org)
- New Mexico Electrical Code (NMAC 14.10.4), 2020, <https://www.srca.nm.gov/nmac-home/nmac-titles/>, (505) 476-4700

The following reference materials are not allowed in the examination center:

- American Electricians' Handbook, Croft, Hartwell, and Summers, 17th Edition, 2021, McGraw-Hill, (800) 262-4729, [www.amazon.com](http://www.amazon.com)
- Pipeline Corrosion and Cathodic Protection, Marshall E. Parker, Edward G. Peattie, 1999, 3<sup>rd</sup> edition, Gulf Professional Publishing Company, (800) 545-2522, [www.gulfpub.com](http://www.gulfpub.com)
- Handbook of Cathodic Corrosion Protection, W. Von Baekmann, 1997, 3<sup>rd</sup> edition, Gulf Publishing Company, (715) 529-4301, [www.gulfpub.com](http://www.gulfpub.com)
- Control of Pipeline Corrosion, A.W. Peabody, 2001, 2<sup>nd</sup> edition, National Association of Corrosion Engineers (NACE), (800) 797-6223, [www.amazon.com](http://www.amazon.com)
- Ugly's Electrical References, George V. Hart, 2008, 2011, or 2014 edition, Jones and Bartlett, (800) 832-0034, [www.uglys.net](http://www.uglys.net)

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## ES-3 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               | 4          |
| Conductors                          | 4          |
| Electrical Power Conditioning       | 2          |
| Electrical and Electronic Knowledge | 6          |
| 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 |
| Applied Systems Design         | 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 are allowed in the examination center:**

- *NFPA 70 - National Electrical Code, 2020, or The National Electrical Code Handbook*, National Fire Protection Association (NFPA), (800) 344-3555, [www.nfpa.org](http://www.nfpa.org)
- *NFPA 72 - National Fire Alarm Code, 2010*, National Fire Protection Association (NFPA), (800) 344-3555, [www.nfpa.org](http://www.nfpa.org)
- *New Mexico Electrical Code (NMAC 14.10.4), 2020*, <https://www.srca.nm.gov/nmac-home/nmac-titles/>, (505) 476-4700

**The following reference materials are not allowed in the examination center:**

- *Low Voltage Wiring: Security/Fire Alarm Systems*, John E. Traister and Terry Kennedy, 2002, 3<sup>rd</sup> Edition (Some vendor descriptions identify this as a 1st edition), McGraw-Hill, (800) 262-4729, [www.books.mcgraw-hill.com](http://www.books.mcgraw-hill.com)
- *Telecommunications Wiring*, Clyde Herrick, 2001, 3<sup>rd</sup> Edition, Prentice-Hall PTR, (800) 382-3419, [www.prenhall.com](http://www.prenhall.com)
- *Understanding and Servicing Alarm Systems*, 1999, 3<sup>rd</sup> Edition, Butterworth-Heinemann (Reed Publishing), (800) 545-2522, [www.bh.com](http://www.bh.com)
- *Live Sound Reinforcement: A Comprehensive Guide to P.A. and Music Reinforcement Systems and Technology -OR- Live Sound Reinforcement, Bestseller Edition*, Scott Hunter Stark, [www.amazon.com](http://www.amazon.com)
- *Data, Voice, and Video Cabling*, 3<sup>rd</sup> Edition, 2009, The Fiber Optic Association, Jim Hayes and Paul Rosenberg, [www.cengage.com](http://www.cengage.com)
- *Antenna Toolkit*, Joe Carr, 2001, 2<sup>nd</sup> edition, Butterworth-Heinemann (Reed Publishing), (800) 545-2522, [www.bh.com](http://www.bh.com)

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#### ES-7 Telephone Communication Systems and Telephone Interconnect Systems

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

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This examination is OPEN BOOK.

**The following reference materials are allowed in the examination center:**

- *NFPA 70 - National Electrical Code, 2020, or The National Electrical Code Handbook*, National Fire Protection Association (NFPA), (800) 344-3555, [www.nfpa.org](http://www.nfpa.org)
- *New Mexico Electrical Code (NMAC 14.10.4), 2020*, <https://www.srca.nm.gov/nmac-home/nmac-titles/>, (505) 476-4700
- *National Electrical Safety Code - C2*, 2007, Institute of Electrical and Electronics Engineers, Inc., (732) 981-0060, [www.ieee.org](http://www.ieee.org)

**The following reference materials are not allowed in the examination center:**

- *Telecommunications Wiring*, Clyde Herrick, 2001, 3<sup>rd</sup> Edition, Prentice-Hall PTR, (800) 382-3419, [www.prenhall.com](http://www.prenhall.com)
- *Lineman's and Cableman's Handbook*, Shoemaker and Mack, 14th Edition, McGraw Hill, (800) 262-4729, [www.amazon.com](http://www.amazon.com)
- *Direct Current Fundamentals*, Stephen L. Herman, 2006, 7th edition, Thomson Delmar Learning, (800) 347-7707, [delmarlearning.com](http://delmarlearning.com)
- *Live Sound Reinforcement: A Comprehensive Guide to P.A. and Music Reinforcement Systems and Technology - OR- Live Sound Reinforcement, Bestseller Edition*, Scott Hunter Stark, [www.amazon.com](http://www.amazon.com)
- *Data, Voice, and Video Cabling*, 3rd Edition, 2009, The Fiber Optic Association, Jim Hayes and Paul Rosenberg, [www.cengage.com](http://www.cengage.com)

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### ES-10 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          |

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- *New Mexico Electrical Code (NMAC 14.10.4)*, 2020, <https://www.srca.nm.gov/nmac-home/nmac-titles/>, (505) 476-4700
- *National Electrical Safety Code*, 2007, Institute of Electrical and Electronics Engineers, Inc., (732) 981-0060, [www.ieee.org](http://www.ieee.org)

**The following reference materials are not allowed in the examination center:**

- *American Electricians' Handbook*, Croft, Hartwell, and Summers, 17th Edition, 2021, McGraw-Hill, (800) 262-4729, [www.amazon.com](http://www.amazon.com)
- *Ugly's Electrical References*, George V. Hart, 2008, 2011, or 2014 edition, Jones and Bartlett, (800) 832-0034, [www.uglys.net](http://www.uglys.net)

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### ES-10R 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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- *New Mexico Electrical Code (NMAC 14.10.4), 2020*, <https://www.srca.nm.gov/nmac-home/nmac-titles/>, (505) 476-4700
- Electrical and Electronics Engineers, Inc., (732) 981-0060, [www.ieee.org](http://www.ieee.org),

**The following reference materials are not allowed in the examination center:**

- *American Electricians' Handbook*, Croft, Hartwell, and Summers, 17th Edition, 2021, McGraw-Hill, (800) 262-4729, [www.amazon.com](http://www.amazon.com)
- *Ugly's Electrical References*, George V. Hart, 2008, 2011, or 2014 edition, Jones and Bartlett, (800) 832-0034, [www.uglys.net](http://www.uglys.net)

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### GA-1 Streets, Roads, and Highways

| # of Questions | % Required to Pass | Time Allowed |
|----------------|--------------------|--------------|
| 60             | 75% (45 points)    | 185 Minutes  |

### CONTENT OUTLINE

| Subject Area                                    | # of Items |
|---|------------|
| Bituminous Surface Treatments and Pavement      | 15         |
| Earthwork                                       | 12         |
| Project Management (Planning, Estimating, Basis | 10         |

|   |   |
|---|---|
| of Payment, One Call)   |   |
| Heavy Equipment / Safety  | 5 |
| Portland Cement Surface Treatments and Pavement                         | 5 |
| Erosion Control   | 4 |
| Surveying   | 4 |
| Miscellaneous (Curbs and Gutters, Concrete Wall Barrier, Fences, Signs) | 5 |

## REFERENCE LIST

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This examination is OPEN BOOK.

**The following reference materials are allowed in the examination center:**

- *Code of Federal Regulations - 29 CFR Part 1926 (OSHA)*, with latest available amendments, U.S. Government Printing Office, (866) 512-1800 or [www.amazon.com](http://www.amazon.com) - OR - *Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI*, with latest available amendments, 866-589-3088, <https://test-takers.psiexams.com/nmcon> (See order form at the end of the Candidate Information Bulletin.)
- *Design and Control of Concrete Mixtures*, Steven H. Kosmatka and William C. Panarese, 17<sup>th</sup> Edition, 2021, Portland Cement Association, (847) 966-6200, [www.cement.org](http://www.cement.org)
- *Pipe and Excavation Contracting*, Dave Roberts, 2011, Craftsman Book Company, (800) 829-8123, [www.craftsman-book.com/products](http://www.craftsman-book.com/products)
- *Hot-Mix Asphalt Paving Handbook*, Carl L. Monismith, Rita B. Leahy, John A. Epps, 2000, American Association of State Highway Transportation Officials, (202) 624-5800, [www.amazon.com](http://www.amazon.com)
- *Manual on Uniform Traffic Control Devices for Streets and Highways*, 2003, US Department of Transportation - Federal Highway Administration, (202) 366-0537, <http://www.fhwa.dot.gov/>
- *New Mexico Specifications for Highway and Bridge Construction*, 2019, New Mexico Department of Transportation, (505) 827-5100, <https://www.srca.nm.gov/nmac-home/nmac-titles/>.
- *Storm Water Management for Construction Activities*, 1992, Environmental Protection Agency, (202) 272-0167, <https://www3.epa.gov/npdes/pubs/owm0307.pdf>.
- *Asphalt in Pavement Maintenance (MS-16)*, 3<sup>rd</sup> edition, Asphalt Institute, (859) 288-4960, [www.asphaltinstitute.org](http://www.asphaltinstitute.org)
- *New Mexico One Call Excavator Handbook*, 2004, New Mexico One Call, (800) 321-2537, [www.nmonecall.org](http://www.nmonecall.org)
- *New Mexico Department of Transportation Active Standard Drawing Master List and Standard Drawings*, 2006, New Mexico Department of Transportation, (505) 827-5100, <https://www.srca.nm.gov/nmac-home/nmac-titles/>
- *Design and Construction of Urban Storm Water Management Systems*, 1992 American Society of Civil Engineers, [www.asce.org](http://www.asce.org)



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## GA-2 Maintenance and Repair

| # of Questions | % Required to Pass | Time Allowed |
|----------------|--------------------|--------------|
| 30             | 75% (23 points)    | 120 Minutes  |

### CONTENT OUTLINE

| Subject Area  | # of Items |
|---|------------|
| Bituminous Surface Treatments and Pavements                 | 15         |
| Project Management (Planning, Estimating, Basis of Payment) | 5          |
| Portland Cement Surface Treatments and Pavements            | 5          |
| Heavy Equipment / Safety                                    | 5          |

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- *Asphalt in Pavement Maintenance (MS-16)*, 3<sup>rd</sup> edition, Asphalt Institute, (859) 288-4960, [www.asphaltinstitute.org](http://www.asphaltinstitute.org)
- *Hot-Mix Asphalt Paving Handbook*, Carl L. Monismith, Rita B. Leahy, John A. Epps, 2000, American Association of

State Highway Transportation Officials, (202) 624-5800, [www.amazon.com](http://www.amazon.com)

- *Manual on Uniform Traffic Control Devices for Streets and Highways*, 2003, US Department of Transportation - Federal Highway Administration, (202) 366-0537, <http://www.fhwa.dot.gov/>
- *Design and Control of Concrete Mixtures*, Steven H. Kosmatka and William C. Panarese, 17<sup>th</sup> Edition, 2021, Portland Cement Association, (847) 966-6200, [www.cement.org](http://www.cement.org)
- *New Mexico Specifications for Highway and Bridge Construction*, 2019, New Mexico Department of Transportation, (505) 827-5100, <https://www.srca.nm.gov/nmac-home/nmac-titles/>.

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## GA-3 Curbs, Gutters, and Culverts

| # of Questions | % Required to Pass | Time Allowed |
|----------------|--------------------|--------------|
| 30             | 75% (23 points)    | 125 Minutes  |

### CONTENT OUTLINE

| Subject Area  | # of Items |
|---|------------|
| Earthwork / Surveying   | 8          |
| Concrete  | 5          |
| Curbs and Gutters   | 5          |
| Culverts  | 4          |
| Project Management (Planning, Estimating, Basis of Payment, One Call) | 4          |
| Heavy Equipment / Safety  | 4          |

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- *Pipe and Excavation Contracting*, Dave Roberts, 2011, Craftsman Book Company, (800) 829-8123, [www.craftsman-book.com/products](http://www.craftsman-book.com/products)
- *New Mexico Specifications for Highway and Bridge Construction*, 2019, New Mexico Department of Transportation, (505) 827-5100, <https://www.srca.nm.gov/nmac-home/nmac-titles/>.
- *New Mexico One Call Excavator Handbook*, 2004, New Mexico One Call, (800) 321-2537, [www.nmonecall.org](http://www.nmonecall.org)
- *Design and Construction of Urban Storm Water Management Systems*, 1992 American Society of Civil Engineers, [www.asce.org](http://www.asce.org)

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#### GA-4 Striping

| # of Questions | % Required to Pass | Time Allowed |
|----------------|--------------------|--------------|
| 30             | 75% (23 points)    | 75 Minutes   |

#### CONTENT OUTLINE

| Subject Area                | # of Items |
|-----------------------------|------------|
| Pavement Markings           | 16         |
| Planning                    | 6          |
| Equipment/Safety            | 3          |
| Estimating/Basis of Payment | 5          |

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- *New Mexico Specifications for Highway and Bridge Construction*, 2019, New Mexico Department of Transportation, (505) 827-5100, <https://www.srca.nm.gov/nmac-home/nmac-titles/>.
- *Manual on Uniform Traffic Control Devices for Streets and Highways*, 2003, US Department of Transportation - Federal Highway Administration, (202) 366-0537, <http://www.fhwa.dot.gov/>
- "Greenbook" - *Standard Specifications for Public Works Construction*, 2006, BNi Publications, Inc., (888) 264-7483, [www.bnibooks.com](http://www.bnibooks.com)

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#### GA-5 Highway Signs and Guard Rails

| # of Questions | % Required to Pass | Time Allowed |
|----------------|--------------------|--------------|
| 30             | 75% (23 points)    | 75 Minutes   |

#### CONTENT OUTLINE

| Subject Area  | # of Items |
|---|------------|
| Metal Barriers, Barricades, Traffic Control Devices | 12         |
| Highway Signs                                       | 5          |
| Equipment Safety                                    | 3          |
| Estimating/Basis of Payment                         | 5          |
| Planning  | 5          |

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- *New Mexico Specifications for Highway and Bridge Construction*, 2019, New Mexico Department of Transportation, (505) 827-5100, <https://www.srca.nm.gov/nmac-home/nmac-titles/>.
- *Manual on Uniform Traffic Control Devices for Streets and Highways*, 2003, US Department of Transportation - Federal Highway Administration, (202) 366-0537, <http://www.fhwa.dot.gov/>

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**GB-2 Residential Building Contractor Part 1 Examination**

| # of Questions | % Required to Pass | Time Allowed |
|----------------|--------------------|--------------|
| 80             | 75% (60 points)    | 225 Minutes  |

**CONTENT OUTLINE**

| Subject Area                               | # of Items |
|--|------------|
| Sitework, Footings, and Foundations        | 9          |
| Concrete and Concrete Reinforcement        | 9          |
| Masonry                                    | 6          |
| Carpentry                                  | 12         |
| Roofing                                    | 10         |
| Associated Trades                          | 12         |
| General Code, Plan Reading, and Estimating | 14         |
| OSHA Safety                                | 8          |

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This examination is OPEN BOOK.

**The following reference materials are allowed in the examination center:**

- *New Mexico Administrative Code Title 14*
- *New Mexico Residential Building Code* (NMAC 14.7.3), 2021, <https://www.srca.nm.gov/nmac-home/nmac-titles/>, (505) 476-4700
- *International Residential Code for One- and Two-Family Dwellings*, 2021, International Code Council, (800) 786-4452, [www.iccsafe.org](http://www.iccsafe.org)
- *International Energy Conservation Code*, 2021, International Code Council, (800) 786-4452, [www.iccsafe.org](http://www.iccsafe.org)
- *The Contractor's Guide to Quality Concrete Construction*, 2005, 3rd Edition, American Concrete Institute, (248) 848-3700, [www.concrete.org](http://www.concrete.org)
- *Roofing Construction and Estimating*, Daniel Atcheson, 2022, Craftsman Book Company, (800) 829-8123, <https://craftsman-book.com/books-and-software>
- *BCSI: Guide to Good Practice for Handling, Installing, Restraining, and Bracing of Metal Plate Connected Wood Trusses*, 2018 (Updated March 2020), Structural Building Components Association and Truss Plate Institute, (608) 274- 4849, [www.amazon.com](http://www.amazon.com)
- *Carpentry and Building Construction*, 2010 or 2016 (Student Edition), John L. Feirer and Mark D. Feirer, McGraw-Hill, <https://www.constructionbook.com/store/product/carpentry-and-building-construction-2016>
- *Modern Masonry - Brick, Block, Stone*, Clois E. Kicklighter, 8<sup>th</sup> edition, 2015, The Goodheart-Willcox Company, (800) 323-0440, [www.g-w.com](http://www.g-w.com)
- *Pipe and Excavation Contracting*, Dave Roberts, 2011, Craftsman Book Company, (800) 829-8123, [www.craftsman-book.com/products](http://www.craftsman-book.com/products)
- *Code of Federal Regulations - 29 CFR Part 1926 (OSHA)*, with latest available amendments, U.S. Government Printing Office, (866) 512-1800 or [www.amazon.com](http://www.amazon.com)

**OR**

*Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI*, with latest available amendments, 866-589-3088, <https://test-takers.psiexams.com/nmcon> (See order form at the end of the Candidate Information Bulletin.)

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.

## GB-98 General Building Contractor Part 2 Examination

| # of Questions | % Required to Pass | Time Allowed |
|----------------|--------------------|--------------|
| 100            | 75% (75 points)    | 310 Minutes  |

### CONTENT OUTLINE

| Subject Area                               | # of Items |
|--|------------|
| Sitework, Footings, and Foundations        | 10         |
| Concrete and Concrete Reinforcement        | 15         |
| Masonry                                    | 10         |
| Carpentry                                  | 6          |
| Metals                                     | 10         |
| Roofing                                    | 6          |
| Associated Trades                          | 10         |
| General Code, Plan Reading, and Estimating | 27         |
| OSHA Safety                                | 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.

This examination is OPEN BOOK.

**The following reference materials are allowed in the examination center:**

- New Mexico Administrative Code Title 14
- *New Mexico Commercial Building Code* (NMAC 14.7.2), 2021, <https://www.srca.nm.gov/nmac-home/nmac-titles/>, (505) 476-4700
- *International Building Code*, 2021, International Code Council, (800) 786-4452, [www.iccsafe.org](http://www.iccsafe.org).
- *Principles and Practices of Commercial Construction*, Cameron K. Andres and Ronald C. Smith, 2014, 9th Edition, Pearson Education, Inc., [www.phcatalog.pearson.com](http://www.phcatalog.pearson.com)
- *Design and Control of Concrete Mixtures*, Steven H. Kosmatka and William C. Panarese, 17<sup>th</sup> Edition, 2021, Portland Cement Association, (847) 966-6200, [www.cement.org](http://www.cement.org)
- *Placing Reinforcing Bars*, 2011 or later printing, 9th Edition, Concrete Reinforcing Steel Institute, (800) 328-6306, [www.amazon.com](http://www.amazon.com)
- *Gypsum Construction Handbook*, 7th edition, 2014, United States Gypsum Company (USG), RS Means Publishing, 700 Longwater Drive, Norwell, MA 02061, 800-334-3509, Fax: 800-632-6732, [www.amazon.com](http://www.amazon.com)
- *SDI Manual of Construction with Steel Deck*, 2006, 2nd Edition, Steel Deck Institute, (847) 458-4647, [www.sdi.org](http://www.sdi.org)
- *Training and Certification of Field Personnel for Unbonded Post-Tensioning - Level 1 Field Fundamentals*,

2003, 3rd Edition, Post-Tensioning Institute, (602) 870-7540, [www.post-tensioning.org](http://www.post-tensioning.org)

- *Erectors' Manual - Standards and Guidelines for the Erection of PreCast Concrete Products*, 1999, 2nd Edition, Precast/Prestressed Concrete Institute (PCI), (312) 786-0300, <https://www.pci.org/bookstore>
- *Technical Digest No. 9 - Handling and Erection of Steel Joists and Joist Girders*, 3rd Edition, 2008, Steel Joint Institute, 234 W. Cheves Street, Florence, SC 29501, Phone: (843) 407-4091, Fax (843) 407-4044, <https://steeljoist.org/>.
- *Carpentry and Building Construction*, 2010 or 2016 (Student Edition), John L. Feirer and Mark D. Feirer, McGraw-Hill, <https://www.constructionbook.com/store/product/carpentry-and-building-construction-2016>
- *Modern Masonry - Brick, Block, Stone*, Clois E. Kicklighter, 8<sup>th</sup> edition, 2015, The Goodheart-Willcox Company, (800) 323-0440, [www.g-w.com](http://www.g-w.com)
- *Pipe and Excavation Contracting*, Dave Roberts, 2011, Craftsman Book Company, (800) 829-8123, [www.craftsman-book.com/products](http://www.craftsman-book.com/products)
- *Code of Federal Regulations - 29 CFR Part 1926 (OSHA)*, with latest available amendments, U.S. Government Printing Office, (866) 512-1800 or [www.amazon.com](http://www.amazon.com)  
OR  
*Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI*, with latest available amendments, 866-589-3088 <https://test-takers.psiexams.com/nmcon> (See order form at the end of the Candidate Information Bulletin.)
- *ACI 530/530.1-11 or ACI 530/530.1-13 (2011 or 2013): Building Code Requirements and Specification for Masonry Structures and Companion Commentaries*, American Concrete Institute, (248) 848-3700, [www.concrete.org](http://www.concrete.org)
- *ACI 318-11 or ACI 318-14 (2011 or 2014): Building Code Requirements for Structural Concrete and Commentary*, American Concrete Institute, (248) 848-3700, [www.concrete.org](http://www.concrete.org)

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## GF-CORE

| # of Questions | % Required to Pass | Time Allowed |
|----------------|--------------------|--------------|
| 40             | 75% (30 points)    | 100 Minutes  |

## CONTENT OUTLINE

| Subject Area                | # of Items |
|-----------------------------|------------|
| Stormwater Management       | 10         |
| OSHA Safety                 | 8          |
| Project Management          | 6          |
| Surveying / Layout          | 5          |
| New Mexico One-Call         | 6          |
| Building Code / Inspections | 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.

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

This examination is OPEN BOOK.

*The following reference materials are allowed in the examination center:*

- *Storm Water Management for Construction Activities*, 1992, Environmental Protection Agency, (202) 272-0167, <https://www3.epa.gov/npdes/pubs/owm0307.pdf>
  - *New Mexico Specifications for Highway and Bridge Construction*, 2019, New Mexico Department of Transportation, (505) 827-5100, <https://www.srca.nm.gov/nmac-home/nmac-titles/>.
  - *Pipe and Excavation Contracting*, Dave Roberts, 2011, Craftsman Book Company, (800) 829-8123, [www.craftsman-book.com/products](http://www.craftsman-book.com/products)
  - *New Mexico One Call Excavator Handbook*, 2004, New Mexico One Call, (800) 321-2537, [www.nmonecall.org](http://www.nmonecall.org)
  - *International Building Code*, 2021, International Code Council, (800) 786-4452, [www.iccsafe.org](http://www.iccsafe.org).
  - *Code of Federal Regulations - 29 CFR Part 1926 (OSHA)*, with latest available amendments, U.S. Government Printing Office, (866) 512-1800 or [www.amazon.com](http://www.amazon.com)
- OR**
- Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI*, with latest available amendments, 866-589-3088 <https://test-takers.psiexams.com/nmcon> (See order form at the end of the Candidate Information Bulletin.)

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## GF-1 Airports

| # of Questions | % Required to Pass | Time Allowed |
|----------------|--------------------|--------------|
| 30             | 75% (23 points)    | 75 Minutes   |

### CONTENT OUTLINE

| Subject Area    | # of Items |
|-----------------|------------|
| Sitework        | 10         |
| Runways         | 15         |
| FAA Regulations | 3          |
| Lighting        | 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 are allowed in the examination center:*

- *Soils and Foundations*, Cheng Liu and Jack B. Evett, 2008, 7<sup>th</sup> edition, Pearson Education, Inc., (201) 236-7000, <http://www.pearsoned.com/>
- *Airport Construction Standards - FAA Advisory Circular AC 150/5370-10*, 2011, Federal Aviation Administration, (866) 835-5322, [www.faa.gov](http://www.faa.gov)

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## GF-2 Bridges

| # of Questions | % Required to Pass | Time Allowed |
|----------------|--------------------|--------------|
| 30             | 75% (23 points)    | 75 Minutes   |

## CONTENT OUTLINE

| Subject Area       | # of Items |
|--------------------|------------|
| Sitework           | 10         |
| Concrete           | 6          |
| Metals             | 3          |
| Asphalt Pavement   | 6          |
| Rigging            | 3          |
| Project Management | 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 are allowed in the examination center:**

- *Construction Handbook for Bridge Temporary Works*, 1995, 1<sup>st</sup> edition, American Association of State Highway Transportation Officials, (202) 624-5800, [bookstore.transportation.org](http://bookstore.transportation.org)
- *Design and Control of Concrete Mixtures*, Steven H. Kosmatka and William C. Panarese, 17<sup>th</sup> Edition, 2021, Portland Cement Association, (847) 966-6200, [www.cement.org](http://www.cement.org)
- *Handbook of Rigging*, 5th Edition, 2009, W.E. Rosnagel, McGraw-Hill, P.O. Box 182605, Columbus, OH 43218-2605, (800) 338-3987, [www.abebooks.com](http://www.abebooks.com)
- *Hot-Mix Asphalt Paving Handbook*, Carl L. Monismith, Rita B. Leahy, John A. Epps, 2000, American Association of State Highway Transportation Officials, (202) 624-5800, [www.amazon.com](http://www.amazon.com)
- *New Mexico Specifications for Highway and Bridge Construction*, 2019, New Mexico Department of Transportation, (505) 827-5100, <https://www.srca.nm.gov/nmac-home/nmac-titles/>.
- *Construction Planning, Equipment, and Methods*, Robert L. Peurifoy, 2024, 10<sup>th</sup> edition, McGraw-Hill, (800) 262-4729, [www.books.mcgraw-hill.com](http://www.books.mcgraw-hill.com)

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tabs, such as Post-It notes, are not allowed and must be removed from the reference before the examination begins.

## GF-3 Canals, Reservoirs, or Irrigation Systems

| # of Questions | % Required to Pass | Time Allowed |
|----------------|--------------------|--------------|
| 30             | 75% (23 points)    | 80 Minutes   |

## CONTENT OUTLINE

| Subject Area | # of Items |
|--------------|------------|
| Irrigation   | 10         |
| Concrete     | 5          |
| Sitework     | 15         |

## REFERENCE LIST

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This examination is OPEN BOOK.

**The following reference materials are allowed in the examination center:**

- *Pipe and Excavation Contracting*, Dave Roberts, 2011, Craftsman Book Company, (800) 829-8123, [www.craftsman-book.com](http://www.craftsman-book.com)
- *Simplified Irrigation Design*, Pete Melby, 1995, 2<sup>nd</sup> edition, John Wiley and Sons, Inc., (201) 748-6000, [www.wiley.com](http://www.wiley.com)
- *Design and Control of Concrete Mixtures*, Steven H. Kosmatka and William C. Panarese, 17<sup>th</sup> Edition, 2021, Portland Cement Association, (847) 966-6200, [www.cement.org](http://www.cement.org) S

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## GF-4 Drainage or Flood Control Systems

| # of Questions | % Required to Pass | Time Allowed |
|----------------|--------------------|--------------|
| 30             | 75% (23 points)    | 75 Minutes   |

## CONTENT OUTLINE

| Subject Area       | # of Items |
|--------------------|------------|
| Earthwork          | 9          |
| Culverts and Pipe  | 9          |
| Concrete           | 9          |
| Project Management | 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 are allowed in the examination center:**

- *Design and Construction of Urban Storm Water Management Systems*, 1992 American Society of Civil Engineers, [www.asce.org](http://www.asce.org)
- *New Mexico Specifications for Highway and Bridge Construction*, 2019, New Mexico Department of Transportation, (505) 827-5100, <https://www.srca.nm.gov/nmac-home/nmac-titles/>.
- *Construction Planning, Equipment, and Methods*, Robert L. Peurifoy, 2024, McGraw-Hill, (800) 262- 4729, [www.books.mcgraw-hill.com](http://www.books.mcgraw-hill.com)
- DIPRA Installation Guide for Ductile Iron Pipe, 2007 (revised 2012), Ductile Iron Pipe Research Association, [www.dipra.org](http://www.dipra.org)

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## GF-5 Recreation Areas

| # of Questions | % Required to Pass | Time Allowed |
|----------------|--------------------|--------------|
| 30             | 75% (23 points)    | 80 Minutes   |

## CONTENT OUTLINE

| Subject Area       | # of Items |
|--------------------|------------|
| Sitework           | 15         |
| Irrigation         | 6          |
| Concrete           | 5          |
| Project Management | 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.

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This examination is OPEN BOOK.

**The following reference materials are allowed in the examination center:**

- *Design and Control of Concrete Mixtures*, Steven H. Kosmatka and William C. Panarese, 17<sup>th</sup> Edition, 2021, Portland Cement Association, (847) 966-6200, [www.cement.org](http://www.cement.org)
- *Pipe and Excavation Contracting*, Dave Roberts, 2011, Craftsman Book Company, (800) 829-8123, <http://www.craftsman-book.com/products>
- *Design and Construction of Urban Storm Water Management Systems*, 1992 American Society of Civil Engineers, [www.asce.org/](http://www.asce.org/)
- *Simplified Irrigation Design*, Pete Melby, 1995, 2<sup>nd</sup> edition, John Wiley and Sons, Inc., (201) 748-6000, [www.wiley.com](http://www.wiley.com)
- *Soils and Foundations*, Cheng Liu and Jack B. Evett, 2008, 7<sup>th</sup> edition, Pearson Education, Inc., (201) 236-7000, <http://www.pearsoned.com>
- *New Mexico Specifications for Highway and Bridge Construction*, 2019, New Mexico Department of Transportation, (505) 827-5100, <https://www.srca.nm.gov/nmac-home/nmac-titles/>.

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## **GF-6 Railroad and Tunnel Construction**

### **SCOPE OF WORK**

Railroad and tunnel construction. Construct railroad lines, including clearing, filling, shaping, compacting, placing rip-rap, stabilizing, setting roadbeds, ties, tie plates, rails, rail connectors, frogs, switch plates, switches, and all appurtenances necessary for an operational railroad line, including bridges, culverts, tunnels, retaining walls, dikes, fences, gates, tool sheds and landing or parking platforms for equipment. Includes welding operations necessary for rail construction.

You will be allowed 2 hours to write an essay examination describing, in as much detail as possible, the tasks required to perform the above license classification. We want to know how you would do each task (using the labor, material, and equipment required) on a step-by-step basis. You may describe projects that you have done to completely explain the knowledge, skills and abilities required to perform a quality job in a safe and efficient manner.

This examination is CLOSED BOOK.

## **GF-7 Tanks and Towers**

| # of Questions | % Required to Pass | Time Allowed |
|----------------|--------------------|--------------|
| 30             | 75% (23 points)    | 80 Minutes   |

### **CONTENT OUTLINE**

| Subject Area             | # of Items |
|--------------------------|------------|
| Miscellaneous Structures | 7          |
| Sitework / Excavation    | 3          |
| Welding                  | 4          |
| Paving and Surfacing     | 3          |
| Tanks                    | 10         |
| Towers                   | 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 are allowed in the examination center:**

- *Welded Carbon Steel Tanks for Water Storage - AWWA Standard*, 2011, American Water Works Association, (800) 926-7335, [www.awwa.org](http://www.awwa.org).

- *Hot-Mix Asphalt Paving Handbook*, Carl L. Monismith, Rita B. Leahy, John A. Epps, 2000, American Association of State Highway Transportation Officials, (202) 624-5800, [www.amazon.com](http://www.amazon.com)
- *Recommended Practices for Installation of Underground Liquid Storage Systems (RP100)*, 2011, Petroleum Equipment Institute, (918) 494-9696, [www.pei.org](http://www.pei.org)
- *Pipe and Excavation Contracting*, Dave Roberts, 2011, Craftsman Book Company, (800) 829-8123, [www.craftsman-book.com/products](http://www.craftsman-book.com/products)
- *Steel Water-Storage Tanks - AWWA Manual M42*, 2013, American Water Works Association, (800) 926-7335, [www.awwa.org](http://www.awwa.org)

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## **GF-8 Transmission Lines, Tanks, and Substations (Non-Electrical)**

| # of Questions | % Required to Pass | Time Allowed |
|----------------|--------------------|--------------|
| 30             | 75% (23 points)    | 125 Minutes  |

### **CONTENT OUTLINE**

| Subject Area                                    | # of Items |
|---|------------|
| Tanks and Pipelines                             | 12         |
| Miscellaneous Structures / Corrosion Protection | 6          |
| Welding   | 4          |
| Heavy Equipment / Safety                        | 4          |
| Paving and Surfacing                            | 4          |

### **REFERENCE LIST**

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This examination is OPEN BOOK.

**The following reference materials are allowed in the examination center:**



|                               |    |
|-------------------------------|----|
| Pipe/Miscellaneous Structures | 15 |
| Earthwork                     | 7  |
| Surface Repair                | 5  |
| Project Management            | 8  |

- Code of Federal Regulations - 29 CFR Part 1926 (OSHA), with latest available amendments, U.S. Government Printing Office, (866) 512-1800 or [www.amazon.com](http://www.amazon.com)  
OR  
Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI, with latest available amendments, 866-589-3088 <https://test-takers.psiexams.com/nmcon> (See order form at the end of the Candidate Information Bulletin.)
- 49 CFR Parts 178-199 (Transportation), 2004, Subchapter D, Pipeline Safety, [www.bookstore.gpo.gov](http://www.bookstore.gpo.gov) OR [www.osha.gov](http://www.osha.gov)
- Handbook of Rigging, 5th Edition, 2009, W.E. Rossnagel, McGraw-Hill, P.O. Box 182605, Columbus, OH 43218-2605, (800) 338-3987, [www.abebooks.com](http://www.abebooks.com)
- Hot-Mix Asphalt Paving Handbook, Carl L. Monismith, Rita B. Leahy, John A. Epps, 2000, American Association of State Highway Transportation Officials, (202) 624-5800, [www.amazon.com](http://www.amazon.com)
- Modern Welding, 2013, 11<sup>th</sup> Edition, Althouse/Turnquist/Bowditch/Bowditch/Bowditch, 978-1-60525-795-2, The Goodheart-Willcox Company, Inc., 18604 West Creek Dr., Tinley Park, IL 60477-6243, (800) 323-0440, [www.amazon.com](http://www.amazon.com)
- Pipe and Excavation Contracting, Dave Roberts, 2011, Craftsman Book Company, (800) 829-8123, <http://www.craftsman-book.com/products>
- Design and Construction of Large, Welded, Low-Pressure Storage Tanks - API Standard 620, 2008, 11th edition, OR Design and Construction of Large, Welded, Low-Pressure Storage Tanks - API Standard 620, 2013, 12th edition with Addendums through April 2018, American Petroleum Institute, [https://store.accuristech.com/standards/api-std-620?product\\_id=1534905](https://store.accuristech.com/standards/api-std-620?product_id=1534905)
- Welded Steel Tanks for Oil Storage - API Standard 650, 2013 (12<sup>th</sup> edition) with Addenda through 2016, American Petroleum Institute, (202) 682-8000, <http://www.techstreet.com>.

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### GF-9 Utility Lines

| # of Questions | % Required to Pass | Time Allowed |
|----------------|--------------------|--------------|
| 35             | 75% (27 points)    | 90 Minutes   |

### CONTENT OUTLINE

| Subject Area | # of Items |
|--------------|------------|
|              |            |

### 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 are allowed in the examination center:**

- New Mexico Specifications for Highway and Bridge Construction, 2019, New Mexico Department of Transportation, (505) 827-5100, <https://www.srca.nm.gov/nmac-home/nmac-titles/>.
- PVC Pipe - Design and Installation - AWWA Manual M23, 2020, 3rd edition, American Water Works Association, (800) 926-7335, <http://www.awwa.org>
- Hot-Mix Asphalt Paving Handbook, Carl L. Monismith, Rita B. Leahy, John A. Epps, 2000, American Association of State Highway Transportation Officials, (202) 624-5800, [www.amazon.com](http://www.amazon.com)
- DIPRA Installation Guide for Ductile Iron Pipe, 2007 (revised 2012), Ductile Iron Pipe Research Association, [www.dipra.org](http://www.dipra.org)
- Design and Construction of Urban Storm Water Management Systems, 1992 American Society of Civil Engineers, [www.asce.org](http://www.asce.org)
- Construction Planning, Equipment, and Methods, Robert L. Peurifoy, 2024, 10<sup>th</sup> edition, McGraw-Hill, (800) 262-4729, [www.books.mcgraw-hill.com](http://www.books.mcgraw-hill.com)

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### GS-4 Concrete, Cement, Walkways, and Driveways

| # of Questions | % Required to Pass | Time Allowed |
|----------------|--------------------|--------------|
| 60             | 75% (45 points)    | 150 Minutes  |

## CONTENT OUTLINE

| Subject Area                | # of Items |
|-----------------------------|------------|
| Estimating and Plan Reading | 10         |
| Layout and Excavation       | 12         |
| Formwork                    | 8          |
| Reinforcing Steel           | 8          |
| General Concrete            | 16         |
| Safety                      | 6          |

## REFERENCE LIST

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- *Code of Federal Regulations - 29 CFR Part 1926 (OSHA)*, with latest available amendments, U.S. Government Printing Office, (866) 512-1800 or [www.amazon.com](http://www.amazon.com)  
OR  
*Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI*, with latest available amendments, 866-589-3088 <https://test-takers.psiexams.com/nmcon> (See order form at the end of the Candidate Information Bulletin.)
- *Design and Control of Concrete Mixtures*, Steven H. Kosmatka and William C. Panarese, 17<sup>th</sup> Edition, 2021, Portland Cement Association, (847) 966-6200, [www.cement.org](http://www.cement.org)
- *Pipe and Excavation Contracting*, Dave Roberts, 2011, Craftsman Book Company, (800) 829-8123, [www.craftsman-book.com/products](http://www.craftsman-book.com/products)
- *New Mexico Commercial Building Code (NMAC 14.7.2)*, 2021, <https://www.srca.nm.gov/nmac-home/nmac-titles/>, (505) 476-4700
- *New Mexico Residential Building Code (NMAC 14.7.3)*, 2021, <https://www.srca.nm.gov/nmac-home/nmac-titles/>, (505) 476-4700
- *International Building Code*, 2021, International Code Council, (800) 786-4452, [www.iccsafe.org](http://www.iccsafe.org).
- *International Residential Code for One- and Two-Family Dwellings*, 2021, International Code Council, (800) 786-4452, [www.iccsafe.org](http://www.iccsafe.org)
- *Formwork for Concrete*, M.K. Hurd, 2005, 7<sup>th</sup> edition, American Concrete Institute, (248) 848-3700, [www.aci-int.org](http://www.aci-int.org)
- *Placing Reinforcing Bars*, 2011 or later printing, 9th Edition, Concrete Reinforcing Steel Institute, (800) 328-6306, [www.amazon.com](http://www.amazon.com)
- *ACI 318-11 or ACI 318-14 (2011 or 2014): Building Code Requirements for Structural Concrete and Commentary*, American Concrete Institute, (248) 848-3700, [www.concrete.org](http://www.concrete.org)

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## GS-6 Door Installation

| # of Questions | % Required to Pass | Time Allowed |
|----------------|--------------------|--------------|
| 30             | 75% (23 points)    | 120 Minutes  |

## CONTENT OUTLINE

| Subject Area          | # of Items |
|-----------------------|------------|
| Doors and Frames      | 14         |
| Doors Hardware        | 9          |
| Special Doors         | 4          |
| Overhead Garage Doors | 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 are allowed in the examination center:*

- *Carpentry and Building Construction*, 2010 or 2016 (Student Edition), John L. Feirer and Mark D. Feirer, McGraw-Hill, <https://www.constructionbook.com/store/product/carpentry-and-building-construction-2016>
- *International Building Code*, 2021, International Code Council, (800) 786-4452, [www.iccsafe.org](http://www.iccsafe.org).
- *International Residential Code for One- and Two-Family Dwellings*, 2021, International Code Council, (800) 786-4452, [www.iccsafe.org](http://www.iccsafe.org)

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### GS-7 Drywall Installation and Texture

| # of Questions | % Required to Pass | Time Allowed |
|----------------|--------------------|--------------|
| 40             | 75% (30 points)    | 130 Minutes  |

#### CONTENT OUTLINE

| Subject Area                | # of Items |
|-----------------------------|------------|
| Estimating and Plan Reading | 6          |
| Materials and Installation  | 19         |
| Taping                      | 4          |
| Special Applications        | 6          |
| Safety                      | 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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*Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI*, with latest available amendments, 866-589-3088 <https://test-takers.psiexams.com/nmcon> (See order form at the end of the Candidate Information Bulletin.)
- *New Mexico Commercial Building Code* (NMAC 14.7.2), 2021, <https://www.srca.nm.gov/nmac-home/nmac-titles/>, (505) 476-4700
- *New Mexico Residential Building Code* (NMAC 14.7.3), 2021, <https://www.srca.nm.gov/nmac-home/nmac-titles/>, (505) 476-4700
- *International Building Code*, 2021, International Code Council, (800) 786-4452, [www.iccsafe.org](http://www.iccsafe.org).
- *International Residential Code for One- and Two-Family Dwellings*, 2021, International Code Council, (800) 786-4452, [www.iccsafe.org](http://www.iccsafe.org)
- *Gypsum Construction Handbook*, 7th edition, 2014, United States Gypsum Company (USG), RS Means Publishing, 700

Longwater Drive, Norwell, MA 02061, 800-334-3509, Fax: 800-632-6732, [www.amazon.com](http://www.amazon.com)

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### GS-8 Earthmoving, Excavation, and Ditching

| # of Questions | % Required to Pass | Time Allowed |
|----------------|--------------------|--------------|
| 40             | 75% (30 points)    | 125 Minutes  |

#### CONTENT OUTLINE

| Subject Area                       | # of Items |
|------------------------------------|------------|
| Estimating and Plan Reading        | 4          |
| Equipment and Technique            | 6          |
| Compaction                         | 10         |
| Soil Types                         | 10         |
| Specialty Work (Blasting, Shoring) | 6          |
| Safety                             | 4          |

#### REFERENCE LIST

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- *Pipe and Excavation Contracting*, Dave Roberts, 2011, Craftsman Book Company, (800) 829-8123, [www.craftsman-book.com/products](http://www.craftsman-book.com/products)

- *International Building Code, 2021*, International Code Council, (800) 786-4452, [www.iccsafe.org](http://www.iccsafe.org).

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### GS-9 Elevators, Escalators, Conveyors

| # of Questions | % Required to Pass | Time Allowed |
|----------------|--------------------|--------------|
| 60             | 75% (45 points)    | 180 Minutes  |

#### CONTENT OUTLINE

| Subject Area          | # of Items |
|-----------------------|------------|
| Commercial Elevators  | 27         |
| Residential Elevators | 8          |
| Escalators            | 8          |
| Moving Walks          | 4          |
| Dumbwaiters           | 4          |
| Emergency Service     | 4          |
| Safety                | 5          |

#### REFERENCE LIST

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This examination is OPEN BOOK.

**The following reference materials are allowed in the examination center:**

- ASME A17.1 - Safety Code for Elevators and Escalators, 2004, American Society of Mechanical Engineers, (800) 843-2763, [www.asme.org](http://www.asme.org)
- ASME A17.2.3 - Inspectors' Manual for Escalators and Moving Walks, 2004, American Society of Mechanical Engineers, (800) 843-2763, [www.asme.org](http://www.asme.org)
- ASME A17.3 - Safety Code for Existing Elevators and Escalators, 2005, American Society of Mechanical Engineers, (800) 843-2763, [www.asme.org](http://www.asme.org)

- *Code of Federal Regulations - 29 CFR Part 1926 (OSHA)*, with latest available amendments, U.S. Government Printing Office, (866) 512-1800 or [www.amazon.com](http://www.amazon.com)

OR

*Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI*, with latest available amendments, 866-589-3088 <https://test-takers.psiexams.com/nmcon> (See order form at the end of the Candidate Information Bulletin.)

- *Elevator Industry Field Employees' Safety Handbook*, 2005, Elevator World, (800) 730-5093, [safety.elevator-world.com](http://safety.elevator-world.com)

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### GS-13 Framing

| # of Questions | % Required to Pass | Time Allowed |
|----------------|--------------------|--------------|
| 60             | 75% (45 points)    | 180 Minutes  |

#### CONTENT OUTLINE

| Subject Area                | # of Items |
|-----------------------------|------------|
| Estimating and Plan Reading | 9          |
| Layout                      | 7          |
| Walls                       | 14         |
| Floors and Stairs           | 13         |
| Roofs                       | 12         |
| OSHA Safety                 | 5          |

#### REFERENCE LIST

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- *New Mexico Residential Building Code* (NMAC 14.7.3), 2021, <https://www.srca.nm.gov/nmac-home/nmac-titles/>, (505) 476-4700
  - *International Building Code*, 2021, International Code Council, (800) 786-4452, [www.iccsafe.org](http://www.iccsafe.org).
  - *International Residential Code for One- and Two-Family Dwellings*, 2021, International Code Council, (800) 786-4452, [www.iccsafe.org](http://www.iccsafe.org)
  - *Carpentry and Building Construction*, 2010 or 2016 (Student Edition), John L. Feirer and Mark D. Feirer, McGraw-Hill, <https://www.constructionbook.com/store/product/carpentry-and-building-construction-2016>
  - *Code of Federal Regulations - 29 CFR Part 1926 (OSHA)*, with latest available amendments, U.S. Government Printing Office, (866) 512-1800 or [www.amazon.com](http://www.amazon.com)
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### GS-16 Masonry

| # of Questions | % Required to Pass | Time Allowed |
|----------------|--------------------|--------------|
| 60             | 75% (45 points)    | 180 Minutes  |

#### CONTENT OUTLINE

| Subject Area                | # of Items |
|-----------------------------|------------|
| Estimating and Plan Reading | 4          |
| Unit Masonry                | 19         |
| Mortar and Grout            | 16         |
| Accessories                 | 7          |
| Stone                       | 2          |
| Tools                       | 4          |
| Restoration and Cleaning    | 4          |
| Safety                      | 4          |

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  - *New Mexico Residential Building Code* (NMAC 14.7.3), 2021, <https://www.srca.nm.gov/nmac-home/nmac-titles/>, (505) 476-4700
  - *International Building Code*, 2021, International Code Council, (800) 786-4452, [www.iccsafe.org](http://www.iccsafe.org).
  - *Code of Federal Regulations - 29 CFR Part 1926 (OSHA)*, with latest available amendments, U.S. Government Printing Office, (866) 512-1800 or [www.amazon.com](http://www.amazon.com)
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- Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI*, with latest available amendments, 866-589-3088 <https://test-takers.psiexams.com/nmcon> (See order form at the end of the Candidate Information Bulletin.)
- *Modern Masonry - Brick, Block, Stone*, Clois E. Kicklighter, 8<sup>th</sup> edition, 2015, The Goodheart-Willcox Company, (800) 323-0440, [www.g-w.com](http://www.g-w.com)
  - ACI 530/530.1-11 or ACI 530/530.1-13 (2011 or 2013): *Building Code Requirements and Specification for Masonry Structures and Companion Commentaries*, American Concrete Institute, (248) 848-3700, [www.concrete.org](http://www.concrete.org)

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### GS-21 Roofing

| # of Questions | % Required to Pass | Time Allowed |
|----------------|--------------------|--------------|
| 75             | 75% (57 points)    | 200 Minutes  |

#### CONTENT OUTLINE

| Subject Area                     | # of Items |
|----------------------------------|------------|
| Estimating and Plan Reading      | 13         |
| Surface Preparation and Planning | 10         |
| Steep and Low Slope Roofing      | 34         |
| Roofing Components               | 11         |
| Safety                           | 7          |

## REFERENCE LIST

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- *New Mexico Commercial Building Code (NMAC 14.7.2)*, 2021, <https://www.srca.nm.gov/nmac-home/nmac-titles/>, (505) 476-4700
- *New Mexico Residential Building Code (NMAC 14.7.3)*, 2021, <https://www.srca.nm.gov/nmac-home/nmac-titles/>, (505) 476-4700
- *International Building Code*, 2021, International Code Council, (800) 786-4452, [www.iccsafe.org](http://www.iccsafe.org).
- *International Residential Code for One- and Two-Family Dwellings*, 2021, International Code Council, (800) 786-4452, [www.iccsafe.org](http://www.iccsafe.org)
- *Roofing Construction and Estimating*, Daniel Atcheson, 2022, Craftsman Book Company, (800) 829-8123, <https://craftsman-book.com/books-and-software>
- *NRCA Roofing Manual: Steep Slope Roof Systems*, 2021, The National Roofing Contractors Association, (847) 299-9070, [www.nrca.net](http://www.nrca.net)
- *NRCA Roofing Manual: Membrane Roofing Systems*, 2023, The National Roofing Contractors Association, (866) 275-6722, [www.nrca.net](http://www.nrca.net)
- *Concrete and Clay Tile Installation Manual*, 2015, Tile Roof Institute, <https://tileroofing.org/wp-content/uploads/TRI-Installation-Guide-2015-1.pdf>

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## GS-24 Structural Steel Erection

| # of Questions | % Required to Pass | Time Allowed |
|----------------|--------------------|--------------|
| 40             | 75% (30 points)    | 120 Minutes  |

### CONTENT OUTLINE

| Subject Area   | # of Items |
|----------------|------------|
| Materials      | 10         |
| Rigging        | 8          |
| Steel Erection | 10         |
| Attachment     | 8          |
| Safety         | 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 are allowed in the examination center:**

- *Handbook of Rigging*, 5th Edition, 2009, W.E. Rossnagel, McGraw-Hill, P.O. Box 182605, Columbus, OH 43218-2605, (800) 338-3987, [www.abebooks.com](http://www.abebooks.com)
- *Technical Digest No. 9 - Handling and Erection of Steel Joists and Joist Girders*, 3rd Edition, 2008, Steel Joint Institute, 234 W. Cheves Street, Florence, SC 29501, Phone: (843) 407-4091, Fax (843) 407-4044, <https://steeljoist.org/>.
- *Principles and Practices of Commercial Construction*, Cameron K. Andres and Ronald C. Smith, 2014, 9<sup>th</sup> Edition, Pearson Education, Inc. [www.phcatalog.pearson.com](http://www.phcatalog.pearson.com)
- *Code of Federal Regulations - 29 CFR Part 1926 (OSHA)*, with latest available amendments, U.S. Government Printing Office, (866) 512-1800 or [www.amazon.com](http://www.amazon.com)  
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- *SDI Manual of Construction with Steel Deck*, 2006, 2nd Edition, Steel Deck Institute, (847) 458-4647, [www.sdi.org](http://www.sdi.org)

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### GS-25 Swimming Pools

| # of Questions | % Required to Pass | Time Allowed |
|----------------|--------------------|--------------|
| 50             | 75% (38 points)    | 155 Minutes  |

#### CONTENT OUTLINE

| Subject Area  | # of Items |
|---|------------|
| Plan Reading and Estimating                             | 3          |
| Sitework and Excavating                                 | 9          |
| Forming and Reinforcing                                 | 9          |
| Concrete  | 8          |
| Shotcrete   | 8          |
| Pool Equipment, Including ADA (No Plumbing or Electric) | 8          |
| Safety, Including CFR, Pool and Security Fencing        | 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 are allowed in the examination center:*

- *New Mexico Commercial Building Code* (NMAC 14.7.2), 2021, <https://www.srca.nm.gov/nmac-home/nmac-titles/>, (505) 476-4700
  - *New Mexico Residential Building Code* (NMAC 14.7.3), 2021, <https://www.srca.nm.gov/nmac-home/nmac-titles/>, (505) 476-4700
  - *International Building Code*, 2021, International Code Council, (800) 786-4452, [www.iccsafe.org](http://www.iccsafe.org).
  - *International Residential Code for One- and Two-Family Dwellings*, 2021, International Code Council, (800) 786-4452, [www.iccsafe.org](http://www.iccsafe.org)
  - *Code of Federal Regulations - 29 CFR Part 1926 (OSHA)*, with latest available amendments, U.S. Government Printing Office, (866) 512-1800 or [www.amazon.com](http://www.amazon.com)
- OR**
- *Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI*, with latest available amendments, 866-589-3088 <https://test-takers.psiexams.com/nmcon> (See order form at the end of the Candidate Information Bulletin.)
  - *Certified Pool-Spa Operators Handbook*, 2006, National Swimming Pool Foundation, 10803 Gulfdale Suite 300, San Antonio, TX 78216, (516) 623-3447, [www.amazon.com](http://www.amazon.com)

- *Design and Control of Concrete Mixtures*, Steven H. Kosmatka and William C. Panarese, 17<sup>th</sup> Edition, 2021, Portland Cement Association, (847) 966-6200, [www.cement.org](http://www.cement.org)
- *Placing Reinforcing Bars*, 2011 or later printing, 9th Edition, Concrete Reinforcing Steel Institute, (800) 328-6306, [www.amazon.com](http://www.amazon.com)
- *Guide to Shotcrete*, 2016 or 2022, American Concrete Institute, (248) 848-3700, [www.concrete.org](http://www.concrete.org)
- *Pipe and Excavation Contracting*, Dave Roberts, 2011, Craftsman Book Company, (800) 829-8123, [www.craftsman-book.com/products](http://www.craftsman-book.com/products)
- *International Swimming Pool and Spa Code*, 2021, International Code Council, (800) 786-4452, [www.iccsafe.org](http://www.iccsafe.org).

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### GS-30 Plastering, Stucco and Lathing

| # of Questions | % Required to Pass | Time Allowed |
|----------------|--------------------|--------------|
| 40             | 75% (30 points)    | 120 Minutes  |

#### CONTENT OUTLINE

| Subject Area                | # of Items |
|-----------------------------|------------|
| Estimating and Plan Reading | 4          |
| Surface Preparation         | 6          |
| Materials                   | 7          |
| Installation                | 9          |
| E.I.F.S.                    | 5          |
| Tools                       | 5          |
| Safety                      | 4          |

#### REFERENCE LIST

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This examination is OPEN BOOK.

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- *New Mexico Commercial Building Code* (NMAC 14.7.2), 2021, <https://www.srca.nm.gov/nmac-home/nmac-titles/>, (505) 476-4700
- *New Mexico Residential Building Code* (NMAC 14.7.3), 2021, <https://www.srca.nm.gov/nmac-home/nmac-titles/>, (505) 476-4700
- *International Building Code*, 2021, International Code Council, (800) 786-4452, [www.iccsafe.org](http://www.iccsafe.org).
- *International Residential Code for One- and Two-Family Dwellings*, 2021, International Code Council, (800) 786-4452, [www.iccsafe.org](http://www.iccsafe.org)
- *Code of Federal Regulations - 29 CFR Part 1926 (OSHA)*, with latest available amendments, U.S. Government Printing Office, (866) 512-1800 or [www.amazon.com](http://www.amazon.com)  
OR  
*Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI*, with latest available amendments, 866-589-3088 <https://test-takers.psiexams.com/nmcon> (See order form at the end of the Candidate Information Bulletin.)
- *Standard Specifications for Installation of Lathing and Furring to Receive Interior and Exterior Portland Cement-Based Plaster - ASTM C 1063*, 2003, American Society for Testing and Materials, (610) 832-9585, [www.astm.org](http://www.astm.org)
- *Standard Specification for Plastic (Stucco) Cement - ASTM C 1328*, 2005, American Society for Testing and Materials, (610) 832-9585, [www.astm.org](http://www.astm.org)
- *Standard Specification for Installation of Steel Framing Members to Receive Screw-Attached Gypsum Panel Products - ASTM C 754*, 2004, American Society for Testing and Materials, (610) 832-9585, [www.astm.org](http://www.astm.org)
- *Standard Specification for Installation of Interior Lathing and Furring - ASTM C 841*, 2003, American Society for Testing and Materials, (610) 832-9585, [www.astm.org](http://www.astm.org)
- *Standard Specification for Application of Interior Gypsum Plaster - ASTM C 842*, 2005, American Society for Testing and Materials, (610) 832-9585, [www.astm.org](http://www.astm.org)
- *Standard Specification for Application of Portland Cement-Based Plaster - ASTM C 926*, 2006, American Society for Testing and Materials, (610) 832-9585, [www.astm.org](http://www.astm.org)
- *Standard Practice for Application of Class PB Exterior Insulation and Finish Systems - ASTM C 1397*, 2005, American Society for Testing and Materials, (610) 832-9585, [www.astm.org](http://www.astm.org)
- *Standard Guide for Use of Joint Sealants with Exterior Insulation and Finish Systems (EIFS) - ASME C 1481*, 2006, American Society for Testing and Materials, (610) 832-9585, [www.astm.org](http://www.astm.org)
- *Standard Practice for Application of Exterior Insulation and Finish Systems Class PI - ASME C 1535*, 2005, American Society for Testing and Materials, (610) 832-9585, [www.astm.org](http://www.astm.org)
- *Gypsum Construction Handbook*, 7th edition, 2014, United States Gypsum Company (USG), RS Means Publishing, 700 Longwater Drive, Norwell, MA 02061, 800-334-3509, Fax: 800-632-6732, [www.amazon.com](http://www.amazon.com)
- *Portland Cement Plaster/Stucco Manual*, 2003, Portland Cement Association, (847) 966-6200, [www.cement.org](http://www.cement.org)

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### MM-1 Plumbing

| # of Questions | % Required to Pass | Time Allowed |
|----------------|--------------------|--------------|
| 100            | 75% (75 points)    | 250 Minutes  |

### CONTENT OUTLINE

| Subject Area                                       | # of Items |
|--|------------|
| Drainage Waste and Vents                           | 25         |
| Water Supply Systems                               | 10         |
| Backflow Prevention                                | 9          |
| Storm Drainage Systems                             | 6          |
| Plumbing Fixtures incl Water Heaters/Accessibility | 10         |
| General Knowledge and General Regulations          | 15         |
| Interceptors and Traps                             | 9          |
| Isometric Analysis                                 | 10         |
| Septic and Sewer                                   | 6          |

### REFERENCE LIST

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This examination is OPEN BOOK.

The following reference materials are allowed in the examination center:

- *Uniform Mechanical Code*, 2021, International Association of Plumbing and Mechanical Officials (IAPMO), (800) 854-2766, [www.iapmo.org](http://www.iapmo.org).
- *New Mexico Plumbing Code* (NMAC 14.8.2), 2015, <https://www.srca.nm.gov/nmac-home/nmac-titles/>, (505) 476-7913.
- *Uniform Plumbing Code*, 2021, International Association of Plumbing and Mechanical Officials (IAPMO), (800) 854-2766, [www.iapmo.org](http://www.iapmo.org).
- *IPT's Pipe Trades Handbook*, Robert A. Lee, 2016, IPT Publishing and Training, Ltd., (888) 808-6763, [www.iptbooks.com](http://www.iptbooks.com).



- *New Mexico Mechanical Code (NMAC 14.9.2)*, 2015, <https://www.srca.nm.gov/nmac-home/nmac-titles/>, (505) 476-7913.
- *New Mexico Liquid Waste Disposal Regulations (NMAC 20.7.3)*, 2005, <https://www.srca.nm.gov/nmac-home/nmac-titles/>, (505) 476-7913
- *NFPA 30A - Code for Motor Fuel Dispensing Facilities and Repair Garages*, 2015 or earlier, National Fire Protection Association (NFPA), (800) 344-3555 [www.nfpa.org](http://www.nfpa.org)

**The following reference materials are not allowed in the examination center:**

- *Mathematics for Plumbers and Pipefitters*, Lee Smith, 8th Edition, 2013, [www.cengage.com](http://www.cengage.com)
- *Code of Federal Regulations - 29 CFR Part 1926 (OSHA)*, with latest available amendments, U.S. Government Printing Office, (866) 512-1800 or [www.amazon.com](http://www.amazon.com)  
OR  
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### **MM-2 Natural Gas Fitting**

| # of Questions | % Required to Pass | Time Allowed |
|----------------|--------------------|--------------|
| 100            | 75% (75 points)    | 255 Minutes  |

#### **CONTENT OUTLINE**

| Subject Area                     | # of Items |
|----------------------------------|------------|
| General Knowledge and Principles | 16         |
| Piping                           | 19         |
| Gas Sizing                       | 13         |
| Safety and Testing               | 8          |
| Appliances                       | 15         |
| Combustion Air                   | 9          |
| Chimneys, Flues, and Vents       | 10         |
| Heating Systems                  | 10         |

#### **REFERENCE LIST**

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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 are allowed in the examination center:**

- *Uniform Mechanical Code, 2021*, International Association of Plumbing and Mechanical Officials (IAPMO), (800) 854-2766, [www.iapmo.org](http://www.iapmo.org).
- *Modern Refrigeration and Air Conditioning*, 19<sup>th</sup> or 20<sup>th</sup> edition, The Goodheart-Willcox Company, (800) 323-0440, [www.g-w.com](http://www.g-w.com)
- *IPT's Pipe Trades Handbook*, Robert A. Lee, 2016, IPT Publishing and Training, Ltd., (888) 808-6763, [www.iptbooks.com](http://www.iptbooks.com).
- *Uniform Plumbing Code, 2021*, International Association of Plumbing and Mechanical Officials (IAPMO), (800) 854-2766, [www.iapmo.org](http://www.iapmo.org).
- *New Mexico Plumbing Code (NMAC 14.8.2)*, 2015, <https://www.srca.nm.gov/nmac-home/nmac-titles/>, (505) 476-7913.
- *New Mexico Mechanical Code (NMAC 14.9.2)*, 2015, <https://www.srca.nm.gov/nmac-home/nmac-titles/>, (505) 476-7913.

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### **MM-3 Heat, Vent and Air Conditioning**

| # of Questions | % Required to Pass | Time Allowed |
|----------------|--------------------|--------------|
| 100            | 75% (75 points)    | 245 Minutes  |

#### **CONTENT OUTLINE**

| Subject Area                                 | # of Items |
|--|------------|
| Motors, Controls, and Low Voltage Wiring     | 20         |
| Piping                                       | 10         |
| Heating and Cooling General Knowledge        | 20         |
| Heating and Cooling Equipment and Components | 15         |
| Refrigerants and Refrigeration               | 15         |
| Duct Work, Ventilation, and Exhaust          | 20         |

## REFERENCE LIST

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- *Modern Refrigeration and Air Conditioning*, 19<sup>th</sup> or 20<sup>th</sup> edition, The Goodheart-Willcox Company, (800) 323-0440, [www.g-w.com](http://www.g-w.com)
- *IPT's Pipe Trades Handbook*, Robert A. Lee, 2016, IPT Publishing and Training, Ltd., (888) 808-6763, [www.iptbooks.com](http://www.iptbooks.com).
- *New Mexico Mechanical Code (NMAC 14.9.2)*, 2015, <https://www.srca.nm.gov/nmac-home/nmac-titles/>, (505) 476-7913.
- Ductulator or other slide or wheel duct calculator
- *HVAC Duct Construction Standards, Metal and Flexible*, 2005, 3<sup>rd</sup> edition, Sheet Metal and Air Conditioning Contractors' National Association, Inc., (703) 803-2980, [www.smacna.org](http://www.smacna.org)
- Pressure and Enthalpy Charts are allowed in the examination. The charts MUST be clearly titled in a pre-printed fashion as "Pressure and Enthalpy Charts". The charts may be the graph type or the table type. Various publishers and manufacturers provide these charts such as Mollier, Real Climate, and SAIMECHE.
- *Sheet Metal*, 2006, American Technical Publishers (ATP), 1155 West 175th Street, Homewood, IL 60430-4600, (800) 323-3471, [www.amazon.com](http://www.amazon.com)

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### **MM-4 Heat, Cooling, and Process Pipe**

| # of Questions | % Required to Pass | Time Allowed |
|----------------|--------------------|--------------|
| 90             | 75% (68 points)    | 235 Minutes  |

## CONTENT OUTLINE

| Subject Area                       | # of Items |
|------------------------------------|------------|
| General Knowledge                  | 29         |
| Steam and Hot Water Boiler Systems | 7          |
| Process Piping and Systems         | 28         |
| Fire Suppression Systems           | 6          |
| Controls and Components            | 15         |
| Combustion Air and Venting         | 5          |

## REFERENCE LIST

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- *Modern Refrigeration and Air Conditioning*, 19<sup>th</sup> or 20<sup>th</sup> edition, The Goodheart-Willcox Company, (800) 323-0440, [www.g-w.com](http://www.g-w.com)
- *Uniform Mechanical Code, 2021*, International Association of Plumbing and Mechanical Officials (IAPMO), (800) 854-2766, [www.iapmo.org](http://www.iapmo.org).
- *New Mexico Boiler Rules and Regulations (NMAC 14.9.4)*, 2005, <https://www.srca.nm.gov/nmac-home/nmac-titles/>, (505) 476-7913
- *NFPA 13 - Installation of Sprinkler Systems*, 2007, National Fire Protection Association (NFPA), (800) 344-3555, [www.nfpa.org](http://www.nfpa.org)
- *NFPA 17 - Standard for Dry Chemical Extinguishing Systems*, 2009, National Fire Protection Association (NFPA), (800) 344-3555, [www.nfpa.org](http://www.nfpa.org)
- *IPT's Pipe Trades Handbook*, Robert A. Lee, 2016, IPT Publishing and Training, Ltd., (888) 808-6763, [www.iptbooks.com](http://www.iptbooks.com).

**The following reference materials are not allowed in the examination center:**

- *New Mexico Plumbing Code (NMAC 14.8.2)*, 2015, <https://www.srca.nm.gov/nmac-home/nmac-titles/>, (505) 476-7913.
- *Uniform Plumbing Code, 2021*, International Association of Plumbing and Mechanical Officials (IAPMO), (800) 854-2766, [www.iapmo.org](http://www.iapmo.org).
- *Low Pressure Boilers*, Frederick M. Steingress, Daryl R. Walker, 4th Edition, 2013, American Technical Publishers, Inc., (800) 323-3471, [www.atplearning.com](http://www.atplearning.com)
- *NFPA 31 - Standard for the Installation of Oil Burning Equipment*, 2001 Edition, National Fire Protection Association (NFPA), (800) 344-3555, [www.nfpa.org](http://www.nfpa.org)

- Pressure and Enthalpy Charts are allowed in the examination. The charts MUST be clearly titled in a pre-printed fashion as “Pressure and Enthalpy Charts”. The charts may be the graph type or the table type. Various publishers and manufacturers provide these charts such as Mollier, Real Climate, and SAIMECHE.

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### MS-3 Cesspools, Septic Tanks and Sewers

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

#### CONTENT OUTLINE

| Subject Area               | # of Items |
|----------------------------|------------|
| General Knowledge          | 5          |
| Installation and Materials | 15         |
| Septic Tanks               | 12         |
| Disposal Absorption Fields | 10         |
| Building Sewers            | 4          |
| Alternative Disposal       | 4          |

#### REFERENCE LIST

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This examination is OPEN BOOK.

*The following reference materials are allowed in the examination center:*

- New Mexico Liquid Waste Disposal Regulations* (NMAC 20.7.3), 2005, <https://www.srca.nm.gov/nmac-home/nmac-titles/>, (505) 476-7913
- Uniform Plumbing Code, 2021*, International Association of Plumbing and Mechanical Officials (IAPMO), (800) 854-2766, [www.iapmo.org](http://www.iapmo.org).
- Mathematics for Plumbers and Pipefitters*, Lee Smith, 8th Edition, 2013, [www.cengage.com](http://www.cengage.com)

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### MS-6 Lawn Sprinklers

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

#### CONTENT OUTLINE

| Subject Area        | # of Items |
|---------------------|------------|
| General Knowledge   | 10         |
| Design              | 9          |
| Materials           | 5          |
| Controls and Wiring | 9          |
| Excavation          | 4          |
| Pumps               | 3          |
| Water Supply        | 5          |
| Sprinkler Heads     | 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 material is allowed in the examination center:*

- Simplified Irrigation Design*, Pete Melby, 1995, 2<sup>nd</sup> edition, John Wiley and Sons, Inc., (201) 748-6000, [www.wiley.com](http://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

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## MS-12 Fire Protection Systems

| # of Questions | % Required to Pass | Time Allowed |
|----------------|--------------------|--------------|
| 80             | 75% (60 points)    | 135 Minutes  |

### CONTENT OUTLINE

| Subject Area                            | # of Items |
|---|------------|
| Backflow Prevention                     | 5          |
| Hydraulic Calculations and Design       | 6          |
| Residential Systems                     | 5          |
| Fire pumps and Standpipes               | 8          |
| Sprinkler Systems                       | 15         |
| Water Supply, Storage, and Distribution | 5          |
| General and Code Knowledge              | 18         |
| Materials and Methods                   | 8          |
| Testing and Inspections (NFPA 25)       | 10         |

### REFERENCE LIST

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This examination is OPEN BOOK.

*The following reference materials are allowed in the examination center:*

- *NFPA 13 - Installation of Sprinkler Systems*, 2007, National Fire Protection Association (NFPA), (800) 344-3555, [www.nfpa.org](http://www.nfpa.org)
- *NFPA 101 - Life Safety Code*, 2009, National Fire Protection Association (NFPA), (800) 344-3555, [www.nfpa.org](http://www.nfpa.org)
- *NFPA 25 - Inspection, Testing, and Maintenance of Water Based Fire Protection Systems*, 2008, National Fire Protection Association (NFPA), (800) 344-3555, [www.nfpa.org](http://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](http://www.nfpa.org)
- *NFPA 15 - Water Spray Fixed Systems for Fire Protection*, 2009, National Fire Protection Association (NFPA), (800) 344-3555, [www.nfpa.org](http://www.nfpa.org)

- *NFPA 14 - Installation of Standpipe, Private Hydrant, and Hose*, 2007, National Fire Protection Association (NFPA), (800) 344-3555, [www.nfpa.org](http://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](http://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](http://www.nfpa.org)
- *Uniform Plumbing Code, 2021*, International Association of Plumbing and Mechanical Officials (IAPMO), (800) 854-2766, [www.iapmo.org](http://www.iapmo.org).
- *NFPA 22: Standard for Water Tanks for Private Fire Protection*, 2008, National Fire Protection Association (NFPA), (800) 344-3555, [www.nfpa.org](http://www.nfpa.org)
- *NFPA 24: Standard for the Installation of Private Fire Service Mains and Their Appurtenances*, 2007, National Fire Protection Association (NFPA), (800) 344-3555, [www.nfpa.org](http://www.nfpa.org)

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.

## MS-14 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

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 are allowed in the examination center:*

- *NFPA 72 - National Fire Alarm Code, 2010, National Fire Protection Association (NFPA), (800) 344-3555, [www.nfpa.org](http://www.nfpa.org)*
- *NFPA 10 - Standard for Portable Fire Extinguishers, 2007, National Fire Protection Association (NFPA), (800) 344-3555, [www.nfpa.org](http://www.nfpa.org)*
- *NFPA 11 - Standard for Low-Expansion Foam, 2005, National Fire Protection Association (NFPA), (800) 344-3555, [www.nfpa.org](http://www.nfpa.org)*
- *NFPA 12A - Standard on Halon 1301 Fire Extinguishing Systems, 2009, National Fire Protection Association (NFPA), (800) 344-3555, [www.nfpa.org](http://www.nfpa.org)*
- *NFPA 17 - Standard for Dry Chemical Extinguishing Systems, 2009, National Fire Protection Association (NFPA), (800) 344-3555, [www.nfpa.org](http://www.nfpa.org)*
- *NFPA 17A - Standard for Wet Chemical Extinguishing Systems, 2009, National Fire Protection Association (NFPA), (800) 344-3555, [www.nfpa.org](http://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](http://www.nfpa.org)*
- *Uniform Plumbing Code, 2021, International Association of Plumbing and Mechanical Officials (IAPMO), (800) 854-2766, [www.iapmo.org](http://www.iapmo.org).*
- *Uniform Mechanical Code, 2021, International Association of Plumbing and Mechanical Officials (IAPMO), (800) 854-2766, [www.iapmo.org](http://www.iapmo.org).*
- *NFPA 2001: Standard for Clean Agent Fire Extinguishing Systems, 2008, National Fire Protection Association (NFPA), (800) 344-3555, [www.nfpa.org](http://www.nfpa.org)*
- *NFPA 12: Standard on Carbon Dioxide Extinguishing Systems, 2008, National Fire Protection Association (NFPA), (800) 344-3555, [www.nfpa.org](http://www.nfpa.org)*

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(continued on next page)

|                          |  |
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