



PSI Services LLC

<https://test-takers.psiexams.com/nvcon>

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

STATE OF NEVADA CONTRACTORS “A” CLASSIFICATION 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/nvcon>

EXAMINATIONS BY PSI

This Candidate Information Bulletin provides you with information about the examination and application process for becoming licensed as a contractor in the State of Nevada.

Nevada State law requires contractors to be licensed and regulated by the Nevada State Contractors' Board. Eligibility for examination is determined by the Board.

The State Contractors' Board has contracted with PSI Services LLC (PSI) to conduct its examination program. PSI provides examinations through a network of computer examination centers in Nevada. 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.

HOW TO OBTAIN A LICENSE

Visit www.nscb.nv.gov to complete the online application form or download the application packet. Questions concerning the application process should be directed to the Nevada State Contractors Board.

If the Board accepts your qualifications to register for an examination, the Board will mail you a Candidate Eligibility letter, along with the Candidate Information Bulletin, which contains the PSI Registration Form and instructions for selecting an examination date.

Each applicant is required to submit a set of fingerprints for the purpose of conducting a state and national fingerprint-based criminal history record.

All questions and requests for information about examinations should be directed to PSI.

PSI Services LLC
(855) 205-5827

<https://test-takers.psiexams.com/nvcon>

Upon passing the examination, PSI will forward your results to the Board for processing.

EXAMINATION SCHEDULING PROCEDURES

FEES AND ELIGIBILITY

The following fee table lists the applicable fee for each examination. The fee is for each registration, whether you are taking the examination for the first time or repeating. A candidate who tests unsuccessfully must wait **2 weeks** before retaking each portion. If you fail the third time, your application becomes void and you must re-apply directly with the Nevada State Contractors' Board.

Note: The \$140 fee is only applicable if the 2nd exam is the CMS. If you are taking 2 trades, e.g., C3 and C4, the fee would be \$95 per exam.

EXAMINATION FEES

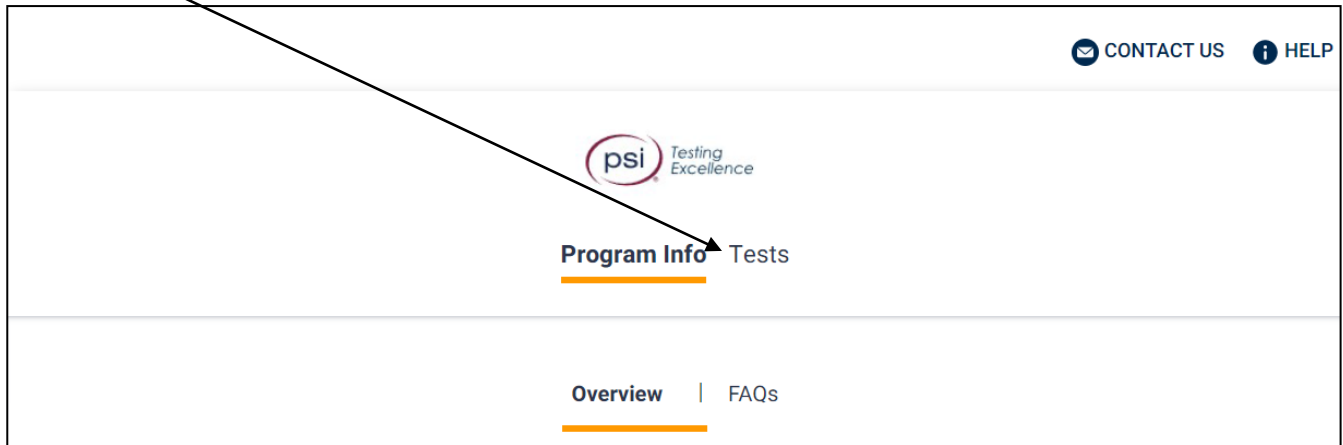
One Examination Portion	\$95
Two Examination Portions	\$140

NOTE: REGISTRATION FEES ARE NOT REFUNDABLE OR TRANSFERABLE. REGISTRATION FEES WILL EXPIRE ON THE SAME DATE AS YOUR ELIGIBILITY EXPIRATION DATE.

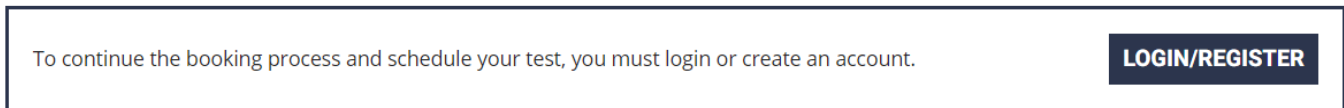
ONLINE (<https://test-takers.psiexams.com/nvcon>)

For the **fastest and most convenient** examination scheduling process, register for your examinations online by accessing PSI's registration Website: [Click Here](#) or on the email confirmation you received from PSI.

1. Select **TESTS** to create an account.



2. Select the examination and you are ready to create an account. Select **LOGIN/REGISTER**.



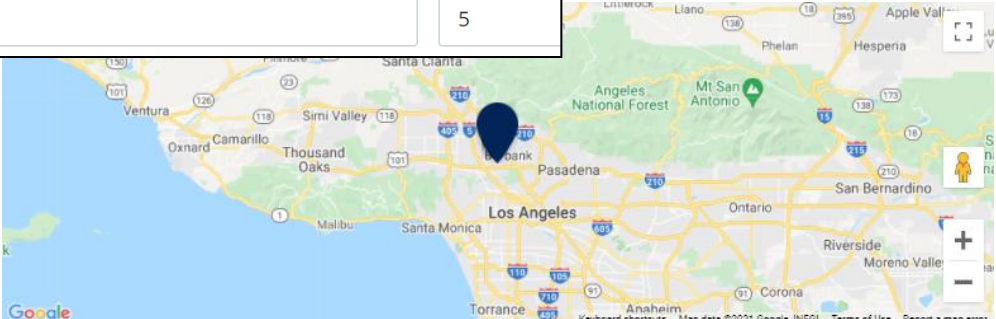
3. You will be prompted to **CREATE AN ACCOUNT** with PSI.

The first and last name must match exactly with your current, valid, government-issued ID.

<input type="text" value="ID *"/>	
<input type="text" value="First Name *"/>	<input type="text" value="Last Name *"/>
<input type="text" value="Middle Name"/>	<input type="text" value="Generation"/>
<input type="text" value="Email *"/>	
<input type="text" value="Password *"/>	Your password must contain: <ul style="list-style-type: none">• At least one capital letter A-Z• At least one lower case letter a-z• At least one number 0-9• At least one special character !@#V\$%V^&V*• At least 8 and up to 32 characters
<input type="text" value="Confirm Password *"/>	

4. Enter the “City or Postal Code” and select **FIND**.

Search Test Center Location



5. Select a date and time to book an appointment.

Choose a Date and Time

October 2021

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

Available Selected

Time slots available for October 08, 2021

6. You are now ready to pay.

Payment

Billing Address

Order Summary

Commercial Contractor Practice Test
Mechanical Bus and Law \$100.00 USD

Total Price

CONTINUE

7. Once payment has been made you will receive a message confirming the test center, booked date, and booked time.

Booking Confirmed!! [Print Confirmation](#)

Email Address: asingla81@psionline.com	Home Phone: 111224444	Office Phone: 2221112345
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TELEPHONE

To speak with a Customer Service Representative, call (855) 205-5827, Monday through Friday between 4:30 am and 7:00 pm, or Saturday-Sunday between 6:00 am and 2:30 pm, Pacific Time. To register by phone, you need a valid VISA, MasterCard, American Express or Discover.

RESCHEDULING AN EXAMINATION

A candidate who tests unsuccessfully must wait 2 weeks before retaking the examination. It is not possible to make a new examination appointment on the same day you have taken an examination; this is due to processing and reporting scores. A candidate who tests unsuccessfully on a Wednesday can call the next day, Thursday to reschedule, however may not retest for 2 weeks from the date of failure. You may access a registration form at <https://test-takers.psiexams.com/nvcon>. You may also call PSI at (855) 205-5827.

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) 205-5827.

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

MISSED APPOINTMENT OR LATE CANCELLATION

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

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

EXAM ACCOMMODATIONS

All 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 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) 205-5827. Every effort will be made to reschedule your examination at a convenient time as soon as possible.

EXAMINATION SITE LOCATIONS

LAS VEGAS

**Brainseed Testing Services
5740 S Eastern Ave, Suite 200
Las Vegas, Nevada 89121**

From I-5 S - At Exit 37, head right on the ramp for Tropicana Ave toward UNLV. Turn right onto Paradise Rd go about .8 of a mile and then turn left onto E Russell Rd. Go about 1.6 miles and then turn right onto S Eastern Ave. The Miracle Flights Plaza offices will be on the left. Brainseed Testing Center is in building 5740, on the second floor.

RENO

**Brainseed Testing Services
5250 Neil Road Suite 110
Reno, NV 89502**

From I-580 take exit 63 to the S. Virginia St., then turn left on the McCarran Blvd, then left on to Neil Road. The testing centers will be on your right.

ELKO

**225 Silver Street Ste 102
Elko, Nevada 89801**

From I-80, take the Mountain City exit towards downtown Elko, exit #303. Turn right on Mountain City and continue on Mountain City Highway. Continue on Silver Street until you reach the destination.

Additionally, PSI has examination centers in many other regions across the United States. You may take this examination at any of these locations. Once you have paid for the examination, enter your zip code and a list of the testing sites closest to you will appear.

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 two (2) forms 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 two (2) forms 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.

SECONDARY IDENTIFICATION - Choose One

- Credit Card (must be signed)
 - Social Security Card
 - US issued Birth Certificate with Raised Seal
- NOTE: Student ID and employment ID are **NOT** acceptable forms of identification.

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 items are **not** permitted in the examination room:

- Only non-programmable calculators that are silent, battery-operated, do not have paper tape printing capabilities, and do not have a keyboard containing the alphabet will be allowed in the examination site.
- 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.

TAKING THE EXAMINATION BY COMPUTER

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

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.

NON-SCORED QUESTIONS

Your examination contains non-scored questions. The use of such questions is an essential step in developing accurate future examinations. These questions will NOT be scored and NOT timed unless specified in the Content Outlines section of this Bulletin.

EXAMINATION REVIEW

PSI, in cooperation with the Nevada State Contractors' Board, will be consistently evaluating the examinations being administered to ensure that the examinations accurately measure competency in the required knowledge areas. Comments may be entered on the computer keyboard during the examination. Your comments regarding the questions and the examinations are welcomed. Comments will be analyzed by PSI examination development staff. While PSI does not respond to individuals regarding these comments, all substantive comments are reviewed. If discrepancy is found during the comment review, PSI and the department may re-evaluate candidates' results and adjust them accordingly. This is the only review of examination materials available to applicants.

SCORE REPORTING

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

- If you **pass**, you will receive a successful score report.
- If you **do not pass**, you will receive a diagnostic report indicating your strengths and weaknesses by examination type on the score report.

DUPLICATE SCORE REPORTS

You may request a duplicate score report after your examination by emailing scorereport@psionline.com or by calling (855) 205-5827.

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. Underline or highlight key ideas that will help with a later review.
- 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.

Now you can take the practice exam online at <https://test-takers.psiexams.com/nvcon> to prepare for your-
Contractor Examination

Please note that practice exams are intended only to help testing candidates become familiar with the general types of questions that

will appear on a licensing examination. They ARE NOT a substitute for proper education and study. Furthermore, scoring well on the practice exam does not guarantee a positive outcome on an actual licensing examination. You may take the practice exams an unlimited number of times. You will need to pay each time.

Many of these reference materials are also available for purchase at www.psiolinestore.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.

EXAMINATION CONTENT OUTLINES

CONTRACTOR MANAGEMENT SURVEY EXAMINATION

SCOPE OF WORK

# of Questions	Time Allowed
60 Scored Items	120 Minutes
3 Non-scored Items	6 Minutes

Minimum Passing Score
45 (75% correct)

CONTENT OUTLINE

Subject Area	# of Items
Licensing	10
Estimating and Bidding	7
Lien Law	3
Financial Management	12
Tax Laws	5
Labor Laws	5
Project Management	3
Contracts	6
Risk Management	4
Environmental and Safety	5

REFERENCE LIST

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

This examination is OPEN BOOK.

The following reference material is allowed in the examination center:

- *Construction Business and Law Manual for Nevada, <http://psionlinestore.com>, (866) 589-3088, (See order form at the end of this bulletin.)*

Candidates are responsible for bringing their own references to the examination center. Reference materials may be highlighted, underlined, and/or indexed prior to the examination session. However, references may not be written in, prior to nor during the examination session. Any candidate caught writing or highlighting 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 exam will begin.

Excavation, Compaction and Grading	12
Safety	7
Steel	6
Piles	4
Concrete	14
Traffic Control	3
Welding	6
NV One-Call	3
Electrical Transmission Lines	6

TRADE EXAMINATIONS

The Nevada State Contractors Board has approved the Examination Content Outlines. The outlines reflect the minimum knowledge required by contractors to perform their duties to the public in a competent and responsible manner. Changes in the content of the examinations will not be made until changes are made in the reference books.

The examination questions reference specific national codes. However when practicing as a contractor you must check with each local jurisdiction to ensure compliance with additional regulations or modifications adopted by that jurisdiction.

If there is conflicting information between a code, law, or regulation and another authorized reference text, please be aware that the requirements of the code, law, or regulation prevail, and that the examination questions will be referenced to the code, law, or regulation.

The examination may include questions on:

- Reading and interpreting construction codes and regulations.
- Nevada Health department regulations.
- Appropriate building codes.
- Trade materials, tools, equipment and methods.
- Nevada Occupational Safety and Health Rules.

A - GENERAL ENGINEERING

SCOPE OF WORK

A general engineering contractor is a contractor whose principal contracting business is in connection with fixed works, including irrigation, drainage, water supply, water power, flood control, harbors, railroads, highways, tunnels, airports and airways, sewers and sewage disposal systems, bridges, inland waterways, pipelines for transmission of petroleum and other liquid or gaseous substances, refineries, chemical plants and industrial plants requiring a specialized engineering knowledge and skill, power plants, piers and foundations and structures or work incidental thereto.

# of Questions	Minimum Passing Score	Time Allowed
100	70	3 Hours

CONTENT OUTLINE

Subject Area	# of Items
Sewers	4
Water and Piping	11
Gas and Liquid Fuel Piping	12
Paving	12

REFERENCE LIST

The reference material listed below was 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, nonprinting, non-programmable calculator in the examination center.

This examination is OPEN BOOK.

The following reference materials are allowed in the examination center:

- Nevada Division of Environmental Protection: Bureau of Water Pollution Control, Fact Sheets WTS-22 and WTS-23, 901 So. Stewart Street, Suite 4001, Carson City, NV 89701-5249, <https://ndep.nv.gov/water/water-pollution-control/resources/publications-technical-guidance>
- NFPA 30, Flammable and Combustible Liquids Code, 2018, National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169, (800) 344-3555, www.nfpa.org
- ASME B31.8 - Gas Transmission and Distribution Systems, 2018, American Society of Mechanical Engineers, 22 Law Drive, PO Box 2900, Fairfield NJ 07007, (800) 843-2763, www.asme.org

Candidates are responsible for bringing their own references to the examination center. Reference materials may be highlighted, underlined, and/or indexed prior to the examination session. However, references may not be written in, **prior to nor** during the examination session. Any candidate caught writing or highlighting 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 exam will begin.

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

- *Contractors Guide to Quality Concrete Construction, 2014, 4th Edition, American Concrete Institute, (248) 848-3700, www.aci-int.org*
- *Placing Reinforcing Bars, Recommended Practices, 2011, 9th Edition, Concrete Reinforcing Steel Institute, Distribution Center, 933 N. Plum Grove Road, Schaumburg, IL 60173, (847) 517-1200, www.crsi.org*

- *Code of Federal Regulations - 29 CFR Part 1926 (OSHA)*, with latest available amendments, U.S. Government Printing Office, (866) 512-1800 or https://www.osha.gov/pls/oshaweb/owastand.display_standard_group?p_toc_level=1&p_part_number=1926
OR
- *Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI, with latest available amendments*, (866) 589-3088, www.psonlinestore.com (See order form at the end of this Candidate Information Bulletin.)
- *Installation Guide for Ductile Iron Pipe*, 2015 Edition, Ductile Iron Pipe Research Association, 205-402-8700, www.dipra.org
- *Pipe and Excavation Contracting*, Dave Roberts, 2011, Craftsman Book Company, <https://www.amazon.com/Pipe-Excavation-Contracting-Revised-Roberts/dp/1572182660>
- *Pipe Welding Procedures*, Hoobasar Rampaul, 2003, Industrial Press, 200 Madison Ave., New York, NY 10016, (888) 528-7852, www.industrialpress.com
- *Standard Specifications for Road and Bridge Construction*, Nevada Department of Transportation, 2001, <http://www.nevadadot.com/home/showdocument?id=6914>
- *Hot-Mix Asphalt Paving Handbook (MAPH-2)*, Carl L. Monismith, Rita B. Leahy, John A. Epps, 2000, American Association of State Highway Transportation Officials, (202) 624-5800, bookstore.transportation.org
- *Pipefitter's Handbook*, 1967, 3rd Edition, Forest R. Linsey, Industrial Press, Inc., 200 Madison Avenue, New York, NY 10016, (888) 528-7852, www.industrialpress.com
- *Suggested Marking Guidelines and The Nevada One Call Law*, https://www.nvenergy.com/publish/content/dam/nvenergy/brochures_arch/help/brochures/npc_call_before_dig_law.pdf
- *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, www.steeljoist.org.
- *Instructional Manual for Training and Certification of Steel Personnel for Unbonded Post-Tensioning*, 2003, Post Tensioning Institute, 1717 West Northern Avenue, Ste 114, Phoenix, AZ 85021, (602) 870-7540
- *Concrete Pipe and Box Culvert Installation Manual*, 2007, American Concrete Pipe Association, 683 Grigsby Way, Cedar Hill, TX 75104, (972) 506-7216, www.concrete-pipe.org
- *Lineman's and Cableman's Handbook*, Shoemaker and Mack, 14th edition (2023), <https://www.psonlinestore.com/linemans-and-cablemans-handbook-14th-edition/>

CONTENT OUTLINE

Subject Area	# of Items
Earthwork Construction	18
Tools and Equipment	12
Safety	7
Nevada One-Call	3

REFERENCE LIST

The reference material listed below was 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, nonprinting, non-programmable calculator in the examination center.

This examination is CLOSED BOOK.

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

- *Standard Specifications for Road and Bridge Construction*, Nevada Department of Transportation, 2001, <http://www.nevadadot.com/home/showdocument?id=6914>
- *Moving the Earth: Excavation Equipment, Methods, Safety, and Cost*, Robert Schmitt, Clifford J. Schexnayder, Aaron Cohen, Herbert Nichols, David Day, 7th Edition, (2018), McGraw-Hill, (800) 262-4729 www.mheducation.com.
- *Pipe and Excavation Contracting*, Dave Roberts, 2011, Craftsman Book Company, <https://www.amazon.com/Pipe-Excavation-Contracting-Revised-Roberts/dp/1572182660>
- *Excavation and Grading Handbook - Revised*, Nick Capachi, 2006, Craftsman Book Company, (800) 829-8123, craftsman-book.com
- *Carpentry and Building Construction*, 2016 (Student Edition), John L. Feirer and Mark D. Feirer, McGraw-Hill, www.mheducation.com
- *Construction Planning, Equipment, and Methods*, Robert L. Peurifoy, 9th edition (2018), McGraw-Hill, <http://www.mheducation.com/highered/product/M0073401129.html>.
- *Code of Federal Regulations - 29 CFR Part 1926 (OSHA)*, with latest available amendments, U.S. Government Printing Office, (866) 512-1800 or https://www.osha.gov/pls/oshaweb/owastand.display_standard_group?p_toc_level=1&p_part_number=1926
OR
Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI, with latest available amendments, (866) 589-3088, www.psonlinestore.com (See order form at the end of this Candidate Information Bulletin.)
- *Suggested Marking Guidelines and The Nevada One Call Law*, https://www.nvenergy.com/publish/content/dam/nvenergy/brochures_arch/help/brochures/npc_call_before_dig_law.pdf

A-7 EXCAVATING AND GRADING

# of Questions	Minimum Passing Score	Time Allowed
40	28	1.5 Hours

A-10 COMMERCIAL AND RESIDENTIAL POOLS

SCOPE OF WORK

# of Questions	Minimum Passing Score	Time Allowed
75	53	2.5 Hours

CONTENT OUTLINE

Subject Area	# of Items
Filtration/Circulation Systems	12
Maintenance and Operation	12
Accessories and Associated Trades	8
Pool and Spa Business Laws and Rules	3
Concrete, Shotcrete and Gunite	15
Design	16
Soils and Earthwork	9

REFERENCE LIST

The reference material listed below was 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 material is allowed in the examination center:

Uniform Swimming Pool, Spa and Hot Tub Code, 2018 Edition, International Association of Plumbing and Mechanical Officials, <http://iapmmembership.org>

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

- *Pipe and Excavation Contracting*, Dave Roberts, 2011, Craftsman Book Company, <https://www.amazon.com/Pipe-Excavation-Contracting-Revised-Roberts/dp/1572182660>

- *Guide to Shotcrete - ACI 506/R-90*, 2016, American Concrete Institute, 38800 International Way/Country Club Drive, PO Box 9094, Farmington Hills, MI 48333, (248) 848-3700, <https://www.concrete.org>
- *Contractors Guide to Quality Concrete Construction*, 2014, 4th Edition, American Concrete Institute, (248) 848-3700, www.aci-int.org
- Lexington, KY 40511, (859) 288-4960, Fax (859) 288-4999, or email: awalker@asphaltinstitute.org.
- *The Ultimate Pool Maintenance Manual*, Terry Tamminen, Third Edition, 2007, <https://www.amazon.com/Ultimate-Guide-Pool-Maintenance-Third/dp/0071470174>
- ANSI/APSP - 1 2014: Standard for Public Swimming Pools, <http://shop.iccsafe.org/ansi-aps-1-2003-standard-for-public-swimming-pools-download.html>
- ANSI/APSP - 5 2011: Standard for Residential Inground Swimming Pools, <http://shop.iccsafe.org/ansi-aps-5-2003-standard-for-residential-inground-swimming-poolsdownload.html>
- ANSI - 3 2014: ANSI/APSP/ICC 3-2014 American National Standard for Permanently Installed Residential Spas and Swim Spas, <http://shop.iccsafe.org/aps-3-1999-standard-for-permanently-installed-residential-spasdownload.html>
- ANSI/NSPI - 2 1999, Standard for Public Spas, <http://aps.org/mx/store/product-details/productid/20-126.aspx>
- *Nevada Admin Code Chapter 444*, <http://www.leg.state.nv.us/Division/Legal/LawLibrary/NAC/NAC-444.html>
- *Certified Pool-Spa Operators Handbook, 2014*, <http://www.icontractor.net/products/certified-poolspa-operators-handbook>
- *Construction Business and Law Manual for Nevada*, <http://psionlinestore.com>, (866) 589-3088, (See order form at the end of this bulletin.)
- *Clark County NV Swimming Pool Code*, https://www.municode.com/library/nv/clark_county/codes/code_of_ordinances?nodeId=TIT22BUCO_CH22.20THS_WPOSPCOCLCO
- *NSF International Standard 50*, 2008, National Sanitation Foundation, http://www.techstreet.com/nsf/standards/nsf-50-2008?product_id=1574545

A-10A RESIDENTIAL POOLS

SCOPE OF WORK

The construction, alteration and repair of residential pools and spas, used for swimming, therapy or decoration, including any appurtenant equipment.

# of Questions	Minimum Passing Score	Time Allowed
50	35	2 Hours

CONTENT OUTLINE

Subject Area	# of Items
Filtration/Circulation Systems	8
Maintenance and Operation	7
Accessories and Associated Trades	6
Pool and Spa Business Laws and Rules	3
Concrete, Shotcrete and Gunite	8
Design	12
Soils and Earthwork	6

REFERENCE LIST

The reference material listed below was 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, nonprinting, non-programmable calculator in the examination center.

This examination is OPEN BOOK.

The following reference material is allowed in the examination center:

Uniform Swimming Pool, Spa and Hot Tub Code, 2018 Edition, International Association of Plumbing and Mechanical Officials, <http://iapmmembership.org>

Candidates are responsible for bringing their own references to the examination center. Reference materials may be highlighted, underlined, and/or indexed prior to the examination session. However, references may not be written in, **prior to nor** during the examination session. Any candidate caught writing or highlighting 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 exam will begin.

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- *Guide to Shotcrete* - ACI 506/R-90, 2016, American Concrete Institute, 38800 International Way/Country Club Drive, PO Box 9094, Farmington Hills, MI 48333, (248) 848-3700, <https://www.concrete.org>
- *Contractors Guide to Quality Concrete Construction, 2014, 4th Edition*, American Concrete Institute, (248) 848-3700, www.aci-int.org
- *The Ultimate Pool Maintenance Manual*, Terry Tamminen, Third Edition, 2007,

<https://www.amazon.com/Ultimate-Guide-Pool-Maintenance-Third/dp/0071470174>

- ANSI/APSP - 5 2011: Standard for Residential Inground Swimming Pools, <http://shop.iccsafe.org/ansi-apsp-5-2003-standard-for-residential-inground-swimming-poolsdownload.html>
- APSP - 3 2014: ANSI/APSP/ICC 3-2014 American National Standard for Permanently Installed Residential Spas and Swim Spas, <http://shop.iccsafe.org/apsp-3-1999-standard-for-permanently-installed-residential-spasdownload.html>
- *Certified Pool-Spa Operators Handbook, 2014*, <http://www.icontractor.net/products/certified-poolspa-operators-handbook>
- *Construction Business and Law Manual for Nevada*, <http://psionlinestore.com>, (866) 589-3088, (See order form at the end of this bulletin.)
- *Clark County NV Swimming Pool Code*, https://www.municode.com/library/nv/clark_county/codes/code_of_ordinances?nodeId=TIT22BUCO_CH22.20THS_WPOSPCOCLCO

A-10B RESIDENTIAL SPAS CONTRACTOR

SCOPE OF WORK

The construction and repair of residential spas, including any appurtenant equipment.

# of Questions	Minimum Passing Score	Time Allowed
40	28	1.5 Hours

CONTENT OUTLINE

Subject Area	# of Items
Filtration/Circulation Systems	4
Maintenance and Operation	6
Accessories and Associated Trades	6
Pool and Spa Business Laws and Rules	3
Concrete, Shotcrete and Gunite	7
Design	8
Soils and Earthwork	6

REFERENCE LIST

The reference material listed below was 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 material is allowed in the examination center:

- *Uniform Swimming Pool, Spa and Hot Tub Code, 2018 Edition, International Association of Plumbing and Mechanical Officials, <http://iapmomembership.org>*

Candidates are responsible for bringing their own references to the examination center. Reference materials may be highlighted, underlined, and/or indexed prior to the examination session. However, references may not be written in, **prior to nor** during the examination session. Any candidate caught writing or highlighting 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 exam will begin.

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

- *Certified Pool-Spa Operators Handbook, 2014, <http://www.icontractor.net/products/certified-poolspa-operators-handbook>*
- *The Ultimate Pool Maintenance Manual, Terry Tamminen, Third Edition, 2007, <https://www.amazon.com/Ultimate-Guide-Pool-Maintenance-Third/dp/0071470174>*
- *Guide to Shotcrete - ACI 506/R-90, 2016, American Concrete Institute, 38800 International Way/Country Club Drive, PO Box 9094, Farmington Hills, MI 48333, (248) 848-3700, <https://www.concrete.org>*
- *Contractors Guide to Quality Concrete Construction, 2014, 4th Edition, American Concrete Institute, (248) 848-3700, www.aci-int.org*
- *ANSI 1999 Standard for Permanently Installed Residential Spas, Association of Pool and Spa Professionals, 2111 Eisenhower Avenue, Alexandria, VA 22314, (703) 838-0083, www.apsp.org*
- *Construction Business and Law Manual for Nevada, <http://psionlinestore.com>, (866) 589-3088, (See order form at the end of this bulletin.)*
- *MS-10: The Design of Asphalt Pavement Structures, Asphalt Institute. Not available online. Contact Asphalt Institute directly at: 2696 Research Park Drive, Lexington, KY 40511, (859) 288-4960, Fax (859) 288-4999, or email: awalker@asphaltinstitute.org.*
- *Clark County NV Swimming Pool Code, https://www.municode.com/library/nv/clark_county/codes/code_of_ordinances?nodeld=TIT22BUCO_CH22.20THS_WPOSPCOCLCO*

A-10C REPAIR OF POOLS AND SPAS

SCOPE OF WORK

The repair and replacement of plaster, coping and coating of pool decks on residential pools and spas.

# of Questions	Minimum Passing Score	Time Allowed
40	28	1.5 Hours

CONTENT OUTLINE

Subject Area	# of Items
Filtration/Circulation Systems	10
Maintenance and Operation	8
Accessories and Associated Trades	11
Pool and Spa Business Laws and Rules	3
Design	5
Soils and Earthwork	3

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- *The Ultimate Pool Maintenance Manual, Terry Tamminen, Third Edition, 2007, <https://www.amazon.com/Ultimate-Guide-Pool-Maintenance-Third/dp/0071470174>*
- *Nevada Admin Code Chapter 444, <http://www.leg.state.nv.us/Division/Legal/LawLibrary/NAC/NAC-444.html>*
- *Construction Business and Law Manual for Nevada, <http://psionlinestore.com>, (866) 589-3088, (See order form at the end of this bulletin.)*

- *MS-10: The Design of Asphalt Pavement Structures*, Asphalt Institute. Not available online. Contact Asphalt Institute directly at: 2696 Research Park Drive, Lexington, KY 40511, (859) 288-4960, Fax (859) 288-4999, or email: awalker@asphaltinstitute.org.
- *Clark County NV Swimming Pool Code*, https://www.municode.com/library/nv/clark_county/codes/code_of_ordinances?nodeId=TIT22BUCO_CH22.20THS_WPOSPCOCLCO

A-10E POOL ALTERATION AND REPAIR

SCOPE OF WORK

The alteration and repair of plaster, tile, coping, pumps, filters, heaters, decking, pool painting, timers, controls and lights on residential and commercial spas, pools, fountains, waterfalls, and ponds.

# of Questions	Minimum Passing Score	Time Allowed
40	28	1.5 Hours

CONTENT OUTLINE

Subject Area	# of Items
Filtration/Circulation Systems	10
Maintenance and Operation	8
Accessories and Associated Trades	11
Pool and Spa Business Laws and Rules	3
Design	5
Soils and Earthwork	3

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- *The Ultimate Pool Maintenance Manual*, Terry Tamminen, Third Edition, 2007, <https://www.amazon.com/Ultimate-Guide-Pool-Maintenance-Third/dp/0071470174>
- *Nevada Admin Code Chapter 444*, <http://www.leg.state.nv.us/Division/Legal/LawLibrary/NAC/NAC-444.html>
- *Construction Business and Law Manual for Nevada*, <http://psionlinestore.com>, (866) 589-3088, (See order form at the end of this bulletin.)
- *MS-10: The Design of Asphalt Pavement Structures*, Asphalt Institute. Not available online. Contact Asphalt Institute directly at: 2696 Research Park Drive, Lexington, KY 40511, (859) 288-4960, Fax (859) 288-4999, or email: awalker@asphaltinstitute.org.
- *Clark County NV Swimming Pool Code*, https://www.municode.com/library/nv/clark_county/codes/code_of_ordinances?nodeId=TIT22BUCO_CH22.20THS_WPOSPCOCLCO

A-12 EXCAVATING, GRADING, TRENCHING, AND SURFACING

# of Questions	Minimum Passing Score	Time Allowed
60	42	2 Hours

CONTENT OUTLINE

Subject Area	# of Items
Earthwork Construction	18
Tools and Equipment	12
Paving and Surfacing Procedures	20
Safety	7
Nevada One-Call	3

REFERENCE LIST

The reference material listed below was 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, nonprinting, non-programmable calculator in the examination center.

This examination is CLOSED BOOK.

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

- *Standard Specifications for Road and Bridge Construction*, Nevada Department of Transportation, 2001, <http://www.nevadadot.com/home/showdocument?id=6914>
- *Moving the Earth*, Herbert L. Nichols, Jr., 6th edition (2010), McGraw-Hill, (800) 262-4729, www.mheducation.com.
- *Pipe and Excavation Contracting*, Dave Roberts, 2011, Craftsman Book Company, <https://www.amazon.com/Pipe-Excavation-Contracting-Revised-Roberts/dp/1572182660>
- *Excavation and Grading Handbook - Revised*, Nick Capachi, 2006, Craftsman Book Company, (800) 829-8123, craftsman-book.com
- *Carpentry and Building Construction*, 2010 or 2016 (Student Edition), John L. Feirer and Mark D. Feirer, McGraw-Hill, www.mheducation.com
- *Construction Planning, Equipment, and Methods*, Robert L. Peurifoy, 9th edition (2018), McGraw-Hill, <http://www.mheducation.com/highered/product/M0073401129.html>.
- *Code of Federal Regulations - 29 CFR Part 1926 (OSHA)*, with latest available amendments, U.S. Government Printing Office, (866) 512-1800 or https://www.osha.gov/pls/oshaweb/owastand.display_standard_group?p_toc_level=1&p_part_number=1926
OR
Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI, with latest available amendments, (866) 589-3088, www.psonlinestore.com (See order form at the end of this Candidate Information Bulletin.)
- *Hot-Mix Asphalt Paving Handbook (MAPH-2)*, Carl L. Monismith, Rita B. Leahy, John A. Epps, 2000, American Association of State Highway Transportation Officials, (202) 624-5800, bookstore.transportation.org
- *The Contractor's Guide to Quality Concrete Construction*, 2014, 4th edition, American Concrete Institute, (248) 848-3700, www.aci-int.org
- *Suggested Marking Guidelines and The Nevada One Call Law*, https://www.nvenergy.com/publish/content/dam/nvenergy/brochures_arch/help/brochures/npc_call_before_dig_law.pdf

CONTENT OUTLINE

Subject Area	# of Items
Safety-Code of Federal Regulations	9
Underground Utilities-Concrete Pipe Installation	10
Excavating and Grading	10
Paving	3
Septic Tanks/Cesspools	15
NV One-Call	3

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This examination is OPEN BOOK.

The following reference material is allowed in the examination center:

- Nevada Division of Environmental Protection: Bureau of Water Pollution Control, Fact Sheets WTS-22 and WTS-23, 901 So. Stewart Street, Suite 4001, Carson City, NV 89701-5249, <https://ndep.nv.gov/water/water-pollution-control/resources/publications-technical-guidance>

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OR
Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI, with latest available amendments, (866) 589-3088, www.psonlinestore.com (See order form at the end of this Candidate Information Bulletin.)
- *DIPRA Installation Guide for Ductile Iron Pipe*, 2015, Ductile Iron Research Association, 245 Riverchase

A-15 SEWERS, DRAINS, AND PIPES

SCOPE OF WORK

The laying of cast-iron, steel, concrete, vitreous and nonvitreous pipe for sewers, drains and irrigation, including any related excavating, grading, trenching, backfilling, paving and surfacing, and the fabrication and erection of cesspools and septic tanks.

# of Questions	Minimum Passing Score	Time Allowed
50	35	2 Hours

Parkway East, Suite O, Birmingham, AL 35244, (205) 402-8700, www.dipra.org

- *Concrete Pipe and Box Culvert Installation Manual*, 2007, American Concrete Pipe Association, 683 Grigsby Way, Cedar Hill, TX 75104, (972) 506-7216, www.concrete-pipe.org
- *Pipe and Excavation Contracting*, Dave Roberts, 2011, Craftsman Book Company, <https://www.amazon.com/Pipe-Excavation-Contracting-Revised-Roberts/dp/1572182660>
- *Hot-Mix Asphalt Paving Handbook (MAPH-2)*, Carl L. Monismith, Rita B. Leahy, John A. Epps, 2000, American Association of State Highway Transportation Officials, (202) 624-5800, bookstore.transportation.org
- *Suggested Marking Guidelines and The Nevada One Call Law*, https://www.nvenergy.com/publish/content/dam/nvenergy/brochures_arch/help/brochures/npc_call_before_dig_law.pdf

- *Hot-Mix Asphalt Paving Handbook (MAPH-2)*, Carl L. Monismith, Rita B. Leahy, John A. Epps, 2000, American Association of State Highway Transportation Officials, (202) 624-5800, bookstore.transportation.org
- *Pipe and Excavation Contracting*, Dave Roberts, 2011, Craftsman Book Company, <https://www.amazon.com/Pipe-Excavation-Contracting-Revised-Roberts/dp/1572182660>
- *Code of Federal Regulations - 29 CFR Part 1926 (OSHA)*, with latest available amendments, U.S. Government Printing Office, (866) 512-1800 or https://www.osha.gov/pls/oshaweb/owastand.display_standard_group?p_toc_level=1&p_part_number=1926
OR
Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI, with latest available amendments, (866) 589-3088, www.psionlinestore.com (See order form at the end of this Candidate Information Bulletin.)
- *Standard Specifications for Road and Bridge Construction*, Nevada Department of Transportation, 2014, <http://www.nevadadot.com/home/showdocument?id=6916>
- *Suggested Marking Guidelines and The Nevada One Call Law*, https://www.nvenergy.com/publish/content/dam/nvenergy/brochures_arch/help/brochures/npc_call_before_dig_law.pdf

A-16 PAVING OF STREETS, DRIVEWAYS, AND PARKING LOTS

SCOPE OF WORK

Examination, excavation, grading, compacting, alteration and repair in the application of asphalt to streets, driveways, parking lots, boat ramps, and landing strips and taxiways for an airport.

# of Questions	Minimum Passing Score	Time Allowed
40	28	1.5 Hours

CONTENT OUTLINE

Subject Area	# of Items
Excavation, Compaction and Grading	12
Paving-Asphalt Paving Procedures	14
Paving-Asphalt Properties and General Uses	3
Safety	5
Traffic Control	3
Nevada One Call	3

REFERENCE LIST

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This examination is CLOSED BOOK.

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

A-17 LINES TO TRANSMIT ELECTRICITY

SCOPE OF WORK

The installation, alteration and repair of primary overhead lines which transmit electricity, including the erection of poles, towers, anchors, guys, transformers, substations, circuit breakers and any other related hardware, equipment or systems.

# of Questions	Minimum Passing Score	Time Allowed
40	28	1.5 Hours

CONTENT OUTLINE

Subject Area	# of Items
Transformers	6
Electrical Knowledge	5
Conductors	5
Overhead Lines	11
Equipment and Safety	4
Grounding Methods	3
Poles and Structures	3
Electric Supply Stations	3

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This examination is CLOSED BOOK.

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

- *Lineman's and Cableman's Handbook*, Shoemaker and Mack, 14th edition (2023), <https://www.psonlinestore.com/linemans-and-cablemans-handbook-14th-edition/>
- *Code of Federal Regulations - 29 CFR Part 1926 (OSHA)*, with latest available amendments, U.S. Government Printing Office, (866) 512-1800 or https://www.osha.gov/pls/oshaweb/owastand.display_standard_group?p_toc_level=1&p_part_number=1926
OR
Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI, with latest available amendments, (866) 589-3088, www.psonlinestore.com (See order form at the end of this Candidate Information Bulletin.)

A-19 PIPELINE AND CONDUITS

SCOPE OF WORK

The fabrication and installation of electrical conduits only, and pipelines including the trenching, boring, shoring, backfilling, compacting, paving, surfacing and application of protective coatings necessary to complete only the installation of the pipes and conduits.

# of Questions	Minimum Passing Score	Time Allowed
60	42	2 Hours

CONTENT OUTLINE

Subject Area	# of Items
Gas Piping	15
Water Piping	15
Welding	6
Safety	8
Paving	5
Excavation, Compaction and Grading	8
Nevada One Call	3

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This examination is OPEN BOOK.

The following reference materials are allowed in the examination center:

- NFPA 30, Flammable and Combustible Liquids Code, 2018, National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169, (800) 344-3555, www.nfpa.org

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OR
Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI, with latest available amendments, (866) 589-3088, www.psonlinestore.com (See order form at the end of this Candidate Information Bulletin.)
- ASME B31.8 - Gas Transmission and Distribution Systems, 2014, American Society of Mechanical Engineers, 22 Law Drive, PO Box 2900, Fairfield NJ 07007, (800) 843-2763, www.asme.org
- *Pipefitter's Handbook*, 1967, 3rd Edition, Forest R. Linsey, Industrial Press, Inc., 200 Madison Avenue, New York, NY 10016, (888) 528-7852, www.industrialpress.com
- *Installation Guide for Ductile Iron Pipe*, 2015 Edition, Ductile Iron Pipe Research Association, 205-402-8700, www.dipra.org
- *Pipe and Excavation Contracting*, Dave Roberts, 2011, Craftsman Book Company, <https://www.amazon.com/Pipe-Excavation-Contracting-Revised-Roberts/dp/1572182660>
- *Suggested Marking Guidelines and The Nevada One Call Law*, https://www.nvenergy.com/publish/content/dam/nvenergy/brochures_arch/help/brochures/npc_call_before_dig_law.pdf
- *Concrete Pipe and Box Culvert Installation Manual*, 2007, American Concrete Pipe Association, 683 Grigsby Way, Cedar Hill, TX 75104, (972) 506-7216, www.concrete-pipe.org
- *Hot-Mix Asphalt Paving Handbook (MAPH-2)*, 2000, Carl L. Monismith, Rita B. Leahy, John A. Epps, 2000, American Association of State Highway Transportation Officials, (202) 624-5800, bookstore.transportation.org

- *Pipe Welding Procedures*, Hoobasar Rampaul, 2003, Industrial Press, 200 Madison Ave., New York, NY 10016, (888) 528-7852, www.industrialpress.com

A-19A PIPELINES AND CONDUITS FOR WATER

SCOPE OF WORK

The fabrication and installation of water pipelines including the trenching, boring, shoring, backfilling, compacting, paving, surfacing and application of protective coatings necessary to complete only the installation of the pipes and conduits.

# of Questions	Minimum Passing Score	Time Allowed
40	28	1.5 Hours

CONTENT OUTLINE

Subject Area	# of Items
Water Piping	21
Safety	6
Paving	4
Excavation, Compaction and Grading	6
Nevada One Call	3

REFERENCE LIST

The reference material listed below was 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, nonprinting, non-programmable calculator in the examination center.

This examination is CLOSED BOOK.

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

- *Installation Guide for Ductile Iron Pipe*, 2015 Edition, Ductile Iron Pipe Research Association, 205-402-8700, www.dipra.org
- *Pipe and Excavation Contracting*, Dave Roberts, 2011, Craftsman Book Company, <https://www.amazon.com/Pipe-Excavation-Contracting-Revised-Roberts/dp/1572182660>
- *Suggested Marking Guidelines and The Nevada One Call Law*, https://www.nvenergy.com/publish/content/dam/nvenergy/brochures_arch/help/brochures/npc_call_before_dig_law.pdf
- *Code of Federal Regulations - 29 CFR Part 1926 (OSHA)*, with latest available amendments, U.S. Government Printing Office, (866) 512-1800 or https://www.osha.gov/pls/oshaweb/owastand.display_standard_group?p_toc_level=1&p_part_number=1926

OR

Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI, with latest available amendments,

(866) 589-3088, www.psonlinestore.com (See order form at the end of this Candidate Information Bulletin.)

- *Hot-Mix Asphalt Paving Handbook (MAPH-2)*, Carl L. Monismith, Rita B. Leahy, John A. Epps, 2000, American Association of State Highway Transportation Officials, (202) 624-5800, bookstore.transportation.org
- *Concrete Pipe and Box Culvert Installation Manual*, 2007, American Concrete Pipe Association, 683 Grigsby Way, Cedar Hill, TX 75104, (972) 506-7216, www.concrete-pipe.org

A-19B PIPELINES AND CONDUITS FOR GAS

SCOPE OF WORK

The fabrication and installation of gas pipelines including the trenching, boring, shoring, backfilling, compacting, paving, surfacing and application of protective coatings necessary to complete only the installation of the pipes and conduits.

# of Questions	Minimum Passing Score	Time Allowed
40	28	1.5 Hours

CONTENT OUTLINE

Subject Area	# of Items
Gas Piping	15
Welding	6
Safety	6
Paving	4
Excavation, Compaction and Grading	6
Nevada One Call	3

REFERENCE LIST

The reference material listed below was 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, nonprinting, non-programmable calculator in the examination center.

This examination is OPEN BOOK.

The following reference material is allowed in the examination center:

- *NFPA 30, Flammable and Combustible Liquids Code*, 2018, National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169, (800) 344-3555, www.nfpa.org

The following reference materials are not 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
https://www.osha.gov/pls/oshaweb/owastand.display_standard_group?p_toc_level=1&p_part_number=1926

OR

- *Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI*, with latest available amendments, (866) 589-3088, www.psonlinestore.com (See order form at the end of this Candidate Information Bulletin.)
- ASME B31.8 - Gas Transmission and Distribution Systems, 2014, American Society of Mechanical Engineers, 22 Law Drive, PO Box 2900, Fairfield NJ 07007, (800) 843-2763, www.asme.org
- *Pipefitter's Handbook*, 1967, 3rd Edition, Forest R. Linsey, Industrial Press, Inc., 200 Madison Avenue, New York, NY 10016, (888) 528-7852, www.industrialpress.com
- *Pipe and Excavation Contracting*, Dave Roberts, 2011, Craftsman Book Company, <https://www.amazon.com/Pipe-Excavation-Contracting-Revised-Roberts/dp/1572182660>
- *Suggested Marking Guidelines and The Nevada One Call Law*, https://www.nvenergy.com/publish/content/dam/nvenergy/brochures_arch/help/brochures/npc_call_before_dig_law.pdf
- *Hot-Mix Asphalt Paving Handbook (MAPH-2)*, Carl L. Monismith, Rita B. Leahy, John A. Epps, 2000, American Association of State Highway Transportation Officials, (202) 624-5800, bookstore.transportation.org
- *Pipe Welding Procedures*, Hoobasar Rampaul, 2003, Industrial Press, 200 Madison Ave., New York, NY 10016, (888) 528-7852, www.industrialpress.com

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, nonprinting, 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*, 2018, International Conference of Building Officials, 5360 Workman Mill Road, Whittier, CA 90601, (800) 284-4406, www.icbo.org

Candidates are responsible for bringing their own references to the examination center. Reference materials may be highlighted, underlined, and/or indexed prior to the examination session. However, references may not be written in, **prior to nor** during the examination session. Any candidate caught writing or highlighting 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 exam will begin.

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

- *Pipe and Excavation Contracting*, Dave Roberts, 2011, Craftsman Book Company, <https://www.amazon.com/Pipe-Excavation-Contracting-Revised-Roberts/dp/1572182660>
- *Modern Hydronic Heating*, John Siegenthaler, 2012, Delmar Publishers, PO Box 6904, Florence, KY 41022, (800) 347-7707, www.delmar.com/delmar.html
- *Mathematics for Plumbers and Pipefitters*, Lee Smith, 8th Edition, 2013, www.cengage.com
- *Code of Federal Regulations - 29 CFR Part 1926 (OSHA)*, with latest available amendments, U.S. Government Printing Office, (866) 512-1800 or https://www.osha.gov/pls/oshaweb/owastand.display_standard_group?p_toc_level=1&p_part_number=1926

OR

Code of Federal Regulations - 29 CFR Part 1926 Selections by PSI, with latest available amendments, (866) 589-3088, www.psonlinestore.com (See order form at the end of this Candidate Information Bulletin.)

A-20 INDUSTRIAL PIPING CONTRACTOR

SCOPE OF WORK

The fabrication and installation of pipes for the transmission of steam, gases, chemicals and other substances required for industrial manufacturing or commercial operations and any related excavation, trenching and backfilling.

# of Questions	Minimum Passing Score	Time Allowed
40	28	1.5 Hours

CONTENT OUTLINE

Subject Area	# of Items
Safety	7
Piping	8
Equipment	8
Valves and Controls	2
Hydronics	8
Excavation	7

REFERENCE LIST

The reference material listed below was 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

A-23 ASBESTOS

SCOPE OF WORK

The cleaning, handling, repair, removal, encapsulation, enclosure, hauling and disposal of, or other work with, materials containing asbestos.

# of Questions	Minimum Passing Score	Time Allowed
60	42	2 Hours

CONTENT OUTLINE

Subject Area	# of Items
General	20
Respirators	10
Mini Enclosures/Glove Bag	5
Methods and Means	25

REFERENCE LIST

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

This examination is CLOSED BOOK.

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

- *Asbestos: Engineering Management and Control*, 1988, Kenneth Cherry, Lewis Publishers, Inc., 121 South Main Street, Chelsea, MI 48118
- *29 CFR 1910.1001 - Asbestos*, Occupational Safety and Health Administration, 800-321-6742, www.osha.gov
- *Respiratory Protection Frequently Asked Questions*, Occupational Safety and Health Administration, 800-321-6742, www.osha.gov/dte/library/respirators/faq.html
- *Federal Asbestos Regulations Manual*, Professional Training Associates, Inc., 46 South Linden St. Ste C. Duquesne, PA 15110, www.ptainc.com
- *Asbestos Abatement Management in Buildings Model Guide Specifications*, 3rd Edition, National Institute of Building Science, 1996, 1201 L Street, NW, Ste 400, Washington DC 20005-4014, (202) 289-7800 www.NIBS.org

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

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