



Vermont  
 Division of Fire Safety  
 Trade Licensing and Certifications  
 Candidate Information Bulletin



FREQUENTLY ASKED QUESTIONS

- 1. HOW DO I REGISTER TO TEST?** To register and schedule for testing, go to <https://www.provexam.com/schedule>. You may also call us at 866-720-7768. [Click here](#) for more information about registering.
- 2. WHERE CAN I TEST?** You may test at any one of Prov's testing centers throughout the United States. [Click here](#) for a current list of our Vermont based testing centers.
- 3. HOW MUCH DOES IT COST?** Exams costs **\$80.00** each.
- 4. WHEN DO I GET MY TEST RESULTS?** Exam results are available at the testing center once you complete your exam.
- 5. ARE THERE ANY STUDY AIDS?** Yes, in our [bookstore](#) we sell practice examinations to help you prepare for your test.
- 6. WHAT IS ON THE TEST?** [Click here](#) for information about the available examinations.

MORE QUESTIONS

Please read through this bulletin completely for answers to your questions. If you still have unanswered questions, you may contact us at the following:

For Licensing Questions -  
**Vermont**  
**Division of Fire Safety**  
**Trade Licensing and**  
**Certifications**  
 1311 US Route 302  
 Suite 600  
 Barre, VT 05641  
 802-479-7561  
 Toll Free: 800- 640-2106  
<https://firesafety.vermont.gov/licensing>

For Testing Questions -  
**Prov, Inc.**  
 200 Association Drive  
 Suite 190  
 Charleston, WV 25311  
 304-414-0190 ext. 3  
 Toll free: 866-720-7768  
 Fax: (877)228-3926  
 Hours: 8 a.m. to 4 p.m.  
[www.provexam.com](http://www.provexam.com)

GENERAL TESTING INFORMATION

The Vermont Division of Fire Safety oversees the licensing process for contractors. The Board has contracted with Prov, Inc. to develop and administer its licensing examination program for contractors. This bulletin has been developed to help explain the rules and processes candidates will need to undertake to complete the testing requirement for their contractor license.

Prov is not authorized to make the determination of which examination(s) candidates must take. If a candidate is unsure which exam is needed for the license being sought, resolve this question before registering. If candidates have questions regarding which exam(s) to take, they must call the Board at 802-479-7561. If candidates take the wrong exam, the exam fee will not be refunded.

EXAMINATION CATEGORIES AND COST

All examinations for the Vermont Division of Fire Safety are available via computer. All examination costs are **\$80.00**. The following are available exams:

**Elevator Exams**

- Vermont Elevator Mechanic
- Vermont Lift Mechanic

**Plumbing Exams**

- Vermont Master Plumber
- Vermont Journeyman Plumber
- Vermont Water Heater Specialist
- Vermont Heating System Specialist
- Vermont Water Treatment Specialist

**Electrical Exams**

- Vermont Master Electrician
- Vermont Journeyman Electrician
- Vermont Automatic Gas and Oil Heating
- Vermont Outdoor Advertising
- Vermont Refrigeration or Air Conditioning
- Vermont Appliance and Motor Repairs
- Vermont Well Pumps

- Vermont Farm Equipment
- Vermont Commercial Fire Alarm
- Vermont Gas Pumps & Bulk Plant Operations
- Vermont Electrical Locksmith
- Vermont Lightning Rod Installations
- Vermont Solar Photovoltaic Installations

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**TESTING WITH PROV**

Your exam will be administered by computer at one of Prov’s testing centers. Prov’s testing system is easy to use and requires no specific computer experience to take the test.

The following link will take you to a short video that demonstrates Prov’s testing system:  
<https://youtu.be/h3T9svnldLY>.

**WHERE TO TAKE YOUR EXAM**

You may take your examination at any of Prov’s testing facilities throughout the United States. Prov has seven (7) Vermont-based testing centers where candidates can take their examinations. These testing centers are located in Burlington, Lyndonville, Manchester Center, Newport, Randolph Center, St. Albans and Williston. Site addresses are provided at the end of this bulletin.

**HOW TO SCHEDULE ONLINE**

1. To schedule online, navigate to the following URL:  
<https://www.provexam.com/register>
2. Enter your identifying information into the system. The State has already shared your testing information with Prov. We need to locate your information within our system.

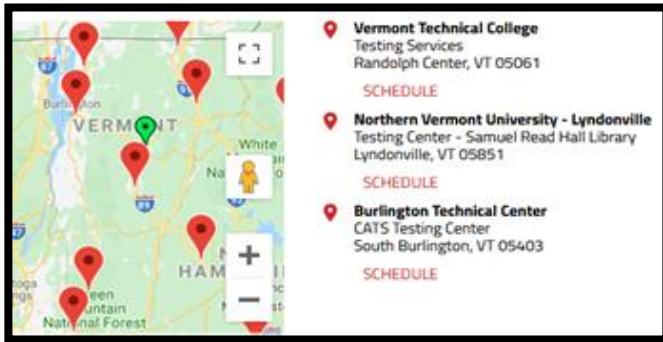
Follow the on-screen fields to enter your Known Candidate ID and your Last Name. The Candidate ID will be provided to you on your registration letter received from the Board. The Candidate ID will begin with 200, and will contain 10 digits. Please enter all of the numbers.

Then, enter your last name and select the **Retrieve Details** button.

3. On the Welcome Screen, you will schedule a Date, Time, and Location for your exam by selecting the link labeled:



4. The scheduling system will display a map to graphically show where the different testing centers are located. Select a testing center from the list of centers to the right of the map.



5. Select the SCHEDULE link to check the calendar for the testing center.
6. Select a test date and time from the calendar that matches your schedule.
7. Confirm your selected date and time and select Add to Cart.
8. Proceed to payment. If you have provided an email address, the invoice for your exam payment will be automatically emailed to you.

If you have any problems with online scheduling, give us a call at (866) 720-7768.

#### SCHEDULING BY PHONE

To schedule for an examination by phone, candidates should contact Prov at [866-720-7768](tel:866-720-7768). Prov's scheduling staff is available 8:00 a.m. through 6:00 p.m. ET, Monday through Friday.

Candidates should be prepared to provide the Prov scheduling staff with their name, driver's license number and their address. Once Prov confirms the candidate's identity, Prov staff will search the database for the next available testing session at the candidate's preferred testing location and will provide candidates with any alternate locations that may be near their address. Once candidates are scheduled, Prov staff will email them information regarding their testing schedule.

#### CANCEL/RESCHEDULING POLICY

If you need to change or cancel your testing appointment, you must contact Prov at least **three (3) business days** prior to your scheduled test date. Rescheduling is free if Prov is notified by the deadline.

If you fail to appear for your test or fail to cancel or reschedule your testing session by the close of business three days prior to your scheduled test date, you will forfeit your exam fees.

#### PREPARING FOR YOUR EXAMS

The licensing examination that you will take has been designed to test what qualified individuals' contractors should know as they work in the construction field.

The test questions used on the examinations have been prepared and reviewed by a panel of qualified individuals and cover the wide range of topics individuals would normally encounter as a contractor during regular work operations.

Prov recommends that you prepare for your exam by familiarizing yourself with the subject areas listed in each exam description. Additionally, familiarize yourself with the reference materials that are allowed during the examination. The more time you spend outside of the testing room studying, the less time you will need to spend in the testing room trying to location information. You are encouraged to prepare your test materials by highlighting text or placing permanent tabs on important pages.

#### PURCHASING REFERENCE MATERIALS & STUDY GUIDES

The exams described above are based upon the study references for each exam. We have listed the reference book's ISBN and a website at which candidates can purchase the reference book. Most reference books can also be purchased by phone or online through the following companies. Shipping charges will apply. Brick and mortar locations are indicated, but candidates should call to verify that orders are ready for pickup.

Many of the books for your examination are available from Prov using the following information:

##### Prov Bookstore

10234 South 2460 East  
Sandy, Utah 84092

<https://www.provexam.com/shop/>

Toll Free: 866-720-7768

Books also available from the following book vendors.

- **@ Home Prep, Inc.**  
900 East Hill Ave., Ste. 380, Knoxville, TN 37915  
[www.contractor-licensing.com](http://www.contractor-licensing.com)  
800-952-0910
- **AAA Construction School, Inc.**  
34 Arlington Road South, Jacksonville, FL 32216  
[www.aaaconstructionschool.com](http://www.aaaconstructionschool.com)  
800-741-7277 or 904-722-9994
- **American Contractors Exam Services**  
737 Southern Hwy., Mineral Wells, WV 26150  
[www.examprep.org](http://www.examprep.org)  
800-992-1910
- **Builder's Book Depot**  
1001 E. Jefferson Rd., Ste., 5, Phoenix, AZ 85034  
[www.buildersbookdepot.com](http://www.buildersbookdepot.com)  
800-284-3434 or 602-252-4050
- **International Code Council**  
900 Montclair Rd., Birmingham, AL 35213  
[www.iccsafe.org](http://www.iccsafe.org)  
800-786-4452
- **My Pearson Bookstore**  
<http://www.mypearsonstore.com>  
800-947-7700 (Opt. 5)
- **North American Contractors Assoc.**  
[www.infonaca.com](http://www.infonaca.com)  
336-540-0149

If candidates need assistance in ordering any study materials, they may contact Prov by phone at 866-720-7768.

#### PRACTICE EXAMS AVAILABLE FROM PROV

Prov also offers practice examinations in several exam categories. Practice examinations cost \$25.00 each and may be ordered either by phone or online at [www.provbookstore.com](http://www.provbookstore.com). Candidates must be sure to use the correct shipping option when ordering. Prov provides practice exams for the following tests:

- Heating, Ventilating, and Cooling
- Journeyman Electrician
- Master Electrician
- Journeyman Plumber
- Master Plumber
- Refrigeration

Available at: <https://www.provexam.com/en-us/shop/vermont-contractors-practice-exams>

#### TEST DAY RULES AND PROCEDURES

##### Check-in Deadline

The doors to each testing center will open at least 15 minutes before all scheduled testing appointments in order to check candidates into the testing center.

You should plan to arrive early to make sure you are seated by the time the testing begins. If you arrive late, AND the testing session has already begun, YOU WILL BE TURNED AWAY, will forfeit your exam fees, and will be required to reschedule for a future testing date.

##### Proof of Identity

Upon arriving at the testing center, you will be required to show government-issued, photo-bearing identification. The photo-bearing ID must be current and valid. Forms of valid photo-bearing ID are a driver's license, passport, or military ID. You will also be required to sign a test center log and will be photographed by the test center staff. If you cannot produce a valid government-issued photo ID, refuse to participate in signing the test center log, or refuse to be photographed, you will be dismissed from the testing center and forfeit all testing fees for that testing session.

If you do not have a photo ID, you may still present a valid State driver's license without a photo, a State ID card without a photo that is issued by the DMV, or a birth certificate.

##### Prohibited Items

No cameras, recorders, cell phones or other communication devices are allowed in the testing room. Talking and smoking are not allowed in the testing room.

##### Approved Items

You may bring the following approved items into the testing center:

- **Pencils.** (Paper/pencil testing only)
- **Calculator.** Only simple 4-function calculators are permitted. PDAs, tablets, cell phones or other special calculators are NOT permitted.
- **Approved References.** (Refer to the exam information for the specific references permitted for the exams)

## Reference Material Rules

All examinations are designed to allow you to use **authorized** references while taking their exams.

For a list of what reference materials are authorized for the exams, please refer to the exam description for the candidate's exam. All reference materials will be checked by the Prov test administrator prior to the candidates being permitted access to the testing room.

You should prepare your reference materials using **ONLY** the following methods.

- Highlighting
- Attaching permanent tabs

Reference materials which do not meet the following guidelines will not be allowed in the testing room. These guidelines are in place to ensure that every candidate is tested fairly and that no candidate has access to unapproved resources.

- Handwritten notes are NOT allowed in any portion of a reference book.
- Moveable tabs are NEVER permitted in a reference book (**Temporary tabs, such as Post-it notes, paper taped or glued in your books are not allowed and must be removed from the reference books before the exam will begin**).
- A reference book CANNOT contain Post-it notes.
- Photocopied documents CANNOT be added to a reference book.
- Photocopied versions of a reference book are NEVER permitted.
- Test preparation study guides are NOT approved references and are NOT permitted in the testing center; this includes practice examinations.

We ask that you leave all unauthorized materials in your car or vehicle. If you are caught using unauthorized materials during testing, these materials will be confiscated, your testing will be terminated with fees forfeited, and the Department will be notified of your dismissal from the exam. During the testing process you MAY NOT:

- Share reference materials during testing.
- Highlight, underline, mark or write any kind of information in their reference materials during testing.

## Visitor Policy

No one other than the candidate will be allowed in the testing room. Non-testing visitors are NOT permitted to wait in the lobby while candidates test.

## Unethical Conduct Policy

Any individual caught giving or receiving assistance during or after the examination or caught using unauthorized materials during the examination will be reported directly to the Division. Those caught in the act of cheating will be dismissed from the examination and their testing results will be frozen. Furthermore, the candidate will forfeit the examination fees paid. Finally, anyone caught with test questions in their possession, either during or following the examination will be prosecuted by Prov for theft of copyrighted testing materials.

### RESULTS REPORTING

Upon completion of an examination, your test will be scored, and you will be provided with a score result while at the testing center. There is no charge for the on-site scoring. The State will be notified of your results automatically. All exams will be scored and graded against a cut-score of 70%. Those achieving a score of 70% or higher will receive a passing grade on that exam.

### RETESTING POLICY

If candidates fail their initial exam, they are permitted to retake the exam another two times within their eligibility period. There is no waiting period between testing attempts; you can schedule a new testing session for the first available testing date. You may not, however, retake an exam once you have received a passing score. Retake fees are the same as the original exam fees.

### REVIEWS

Reviews are intended to help candidates audit their testing results by allowing them to see which questions were missed during testing.

You may request a review of your exam only after failing an exam category a minimum of two (2) times.

To be eligible for a review, you must score within 10 points of the required 70% passing score. The review for all tests is 1-1/2 hours in length.

During the review you will be provided a printout of the questions you missed on your most recent examination. Additionally, you will receive the answers you chose for those questions.

The review will be conducted under the same testing conditions as the exam using the same test security rules.

The cost of the review is the same as the exam fees and based on when you wish to review your test. Candidates will request or schedule a review using the same methods described earlier for scheduling.

#### EXAM CHALLENGE PROCESS

If during an exam or review, candidates encounter a question they think is inaccurate or otherwise incorrect, they are encouraged to submit an Exam Comment form to Prov detailing why they feel the question is in error.

Candidates testing on computer may make their comments in the testing system, while those taking a paper/pencil format exam may submit comments on a comment form that can be obtained from the test proctor at the testing center. Candidates who are reviewing an exam will automatically be provided with an Exam Comment form.

Prov staff will review each comment within two weeks of receipt by Prov and will make scoring adjustments should any comment result in a change to a test question.

#### HAND SCORE REQUEST

Prov ensures the accuracy of our exam results. Our computer system is designed to identify and report any potential error in data collected from an exam session. If you would like to have your score reassessed for accuracy, you can request a Hand Score by calling Prov at 1-866-720-7768 and asking for a Hand Score Request Form.

A Hand Score Request form requires a signature and must be mailed to Prov. Forms must be received by Prov no later than ninety (90) days after your examination administration date and must be accompanied by a copy of your original score letter.

Once a Hand Score is received, Prov Staff will process the request within seven (7) to ten (10) business days.

During the Hand Score process a staff member will ensure that your answers were properly recorded and scored by comparing the captured answers to the exam key.

Upon completion of the Hand Score we will provide a letter by mail to report the outcome of the reassessment. The cost of the hand score is \$25.00 (includes tax).

#### PROV'S NON-DISCRIMINATION STATEMENT

Prov provides equal access to its exams and testing programs for all eligible persons. Although individual jurisdictions that Prov represents are wholly responsible for determining eligibility of candidates, it is the policy of Prov to maintain an environment free of discrimination and to prohibit discrimination and harassment against any person on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and veteran, marital or family status.

Harassment of Prov program participants, proctors, staff or candidates will not be tolerated. If candidates wish to express concerns about discrimination, they should contact Prov at 866-720-7768 or write to: Prov, Inc., 5200 NW 43<sup>rd</sup> St., Suite 102-167, Gainesville, FL 32606.

#### SPECIAL ACCOMMODATIONS

Prov complies with the Americans with Disabilities Act (ADA) in providing special accommodations for candidates that require additional assistance during the testing process.

If candidates feel that they qualify for a special accommodation during testing, they should contact Prov at (866) 720-7768. Prov will require written documentation from a licensed physician or psychologist documenting the disability and further require a request describing the requested remedy.

Prov will then work directly with the candidates to make the accommodations they will need in order to complete their examination.

**TESTING SITE AVAILABILITY**

You may take your examination at anyone of Prov’s testing facilities nationwide.

You can also take the exam at home using Prov’s Examroom® service.

**What is Examroom?**

Examroom is a remote test monitoring service that allows you to take the test on your own computer at your home. You schedule the test the same way you would an in-person testing site; by selecting your preferred test date and time. Then, on test day, you log into the Examroom website and request to start your exam.

A test proctor will greet you over your computer, verify your identity, take your picture, and observe you throughout the testing process.

How to decide whether to use Examroom? **Not every computer system is capable of taking a test on Examroom.** The following are the **MINIMUM** requirements that your computer system would need in order to qualify to take the test using the Examroom service:

- Operating system on computer needs to be recent (less than 3-4 years old)
- Works on a MAC, PC, or Chromebook
- Need either a Chrome or Firefox browser (Chrome works best)
- Need a functioning computer web-camera and microphone
- Need a good consistent Internet connection capable of **uploading** files in excess of 3 Mbps

Please use the following link to do a system check **before you schedule** the exam to make sure your computer system will support testing using the Examroom Service.

<https://examroom.ai/systemtest/>

When prompted “Permission to access camera and microphone”, you must click “Allow”.

If your system does not allow you to test at home, don’t worry, we have some great testing locations that are not too far away.

**Fixed Testing Locations**

The following are the existing testing sites and testing days of the week. Note that sites may change as needed. Please refer to the current online scheduling system to find available testing times for each location.

Location	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Manchester Center	*	*				
Lyndonville		*	*			
South Burlington			*			
Newport			*			*
Randolph Center			*			*
St Albans City					*	
Williston			*			

**VERMONT TEST SITE LOCATIONS**

**1. Burlington Technical Center**

Computer Assisted Testing Center  
 @ Heritage Aviation  
 265 Aviation Ave, 2nd Floor  
 South Burlington, VT 05403

Computer Tests are administered every Wednesday at 11:00 a.m.

Directions: Interstate 89 runs North and South. Vermont Route #2 and the Williston Road are accessed from Interstate 89 via Exit 14 E (East). We are located 2 miles from the I 89 Exit.

Williston Road is Vermont State Route #2 East. Traveling East on the Williston Road the entrance to the Heritage General Aviation Facility is on the left hand side of the road just past the Pour House Restaurant. There is a large sign at the entrance to the road. The name of the street is Aviation Avenue.

**2. Northern Vermont University - Lyndon Campus**

Testing Center  
 1001 College Road, 2<sup>nd</sup> Floor Samuel Reed Library  
 Lyndonville, VT 05851

Computer Tests are administered every Tuesday and Wednesday at 9:00am and 1:00pm

Directions: Please view the link to campus map: <https://www.northernvermont.edu/about/location-and-directions/our-campuses/lyndon-campus/how-get-nvu-lyndon>

Lyndonville is at Exit 23 on Interstate 91. After exiting the ramp, enter U.S. Rt. 5 north and take an immediate left at the stoplight (Back Center Road). Follow for 1.5 miles to the stop sign. Continue straight for 100 yards, turn left at Lyndon Institute onto College Road. Continue one mile up the hill to the College.

**3. Manchester Tutorial Center**

Testing Services  
3511 Richville Road  
Manchester Center, VT 05255

Computer Tests are administered monthly on select Mondays and Wednesdays.

Directions: <http://tutoringvermont.org/home/about-us/#our-locations>

**4. Community College of Vermont - Newport**

Learning & Career Center  
100 Main St #150,  
Newport, VT 05855

Computer Testing is administered Wednesdays and Saturdays at 8:30 a.m. & 1:30 p.m.

Located in the Emory Hebard State Office Building overlooking Lake Memphremagog

**5. Vermont Technical College**

Testing Services  
124 Admin Drive  
Randolph Center, VT 05061

Computer Testing is administered Wednesdays and Saturdays at 8:00 a.m. & 1:00 p.m.

Directions: Please view the link to campus map at: <https://www.vtc.edu/academics/continuing-education-workforce-development>

**6. Vermont Adult Learning - FGI**

Franklin/Grand Isle Testing Services  
5 Lemnah Drive  
St Albans City, VT 05478

Computer Testing is administered on select Fridays at 9:00 a.m.

Directions: Please view the link to campus map at: <http://www.vtadullearning.org/franklin-grand-isle-counties/>

**7. Vermont Technical College - Williston**

Williston Testing Services  
201 Lawrence Place, Building 200 Room 209  
Williston, VT 05495

Computer Testing is administered on Wednesdays at 8:00 a.m.

Directions: Please view the link to campus map at:

<https://www.vtc.edu/meet-vermont-tech/campuses/williston>

**EXAM DESCRIPTIONS**

**Elevator Exams**

**Vermont Elevator Mechanic**

A Vermont licensed Type-S Journeyman electrician for Elevator Mechanic is entitled to perform specialty electrical installations after completing an accredited training and experience program recognized by the board; or having acceptable training and experience. The licensed person must pass a separate exam in the specialty selected, Elevator Mechanic

Number of Questions	79
Time allowed (hours)	2
Subject Area	# Quest.
Pre-Installation	6
Machine Room	5
Commercial Elevators & Lifts	10
Hydraulics	6
Electrical Materials & Installation	6
Testing	6
Escalators	6
Maintenance and Repair	12
Safety	5
Residential Elevators & Lifts	6
LULA	6
Local Amendments	5

**References**

- **2014 State of Vermont Elevator Safety Rules**, 2014. State of Vermont. <https://firesafety.vermont.gov>
- **ASME A17.1-2013 Safety Code for Elevators and Escalators**, 2013. ISBN: 9780791868577. American Society of Mechanical Engineers, Three Park Avenue, New York, NY 10016-5990. Available at <http://www.asme.org/shop/>.
- **ASME A17.3-11 Safety Code for Existing Elevators and Escalators**, 2011. ISBN: 978-0-7918-3359-9. American Society of Mechanical Engineers, Three Park Avenue, New York, NY 10016-5990. Available at <http://www.asme.org/shop/>.



- **ASME A18.1 Safety Standard for Platform Lifts and Stairway Chairlifts**, 2011. American Society of Mechanical Engineers, Three Park Avenue, New York, NY 10016-5990. Available at <http://www.asme.org/shop/>.
- **Elevator Industry Field Employees' Safety Handbook**, 2010. National Elevators Industry Inc. [https://www.qualityelevator.com/assets/1/6/Complete\\_Safety\\_Handbook.pdf](https://www.qualityelevator.com/assets/1/6/Complete_Safety_Handbook.pdf)
- **LULA**. State of Vermont. <https://www.garaventlift.com/dsgn/LULA-Elevator-DP-Guide.pdf?time=1571925373666>
- **NFPA 70 - National Electric Code 2017**, 2017. ISBN: 978-145591277-3. National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471. Available at [www.nfpa.org](http://www.nfpa.org).
- **Vermont Statutes Title 26 Chapter 15**. State of Vermont. <https://legislature.vermont.gov/statutes/fullchapter/26/015>

## Vermont Lift Mechanic

A Vermont licensed Type-S Journeyman electrician for Lift Mechanic is entitled to perform specialty electrical installations after completing an accredited training and experience program recognized by the board; or having acceptable training and experience. The licensed person must pass a separate exam in the specialty selected, Lift Mechanic

<b>Number of Questions</b>	<b>45</b>
<b>Time allowed (hours)</b>	<b>2</b>
<b>Subject Area</b>	<b># Quest.</b>
Vertical Platform Lifts	13
Inclined Platform Lifts	8
Inclined Stairway Chair Lifts	4
Electrical Materials & Installation	6
Inspections and Tests	4
Safety	5
Local Amendments	5

### References

- **2014 State of Vermont Elevator Safety Rules**, 2014. State of Vermont. <https://firesafety.vermont.gov>
- **ASME A18.1 Safety Standard for Platform Lifts and Stairway Chairlifts**, 2011. ISBN: 9999999999999. American Society of Mechanical Engineers, Three Park Avenue, New York, NY 10016-5990. Available at <http://www.asme.org/shop/>.
- **Elevator Industry Field Employees' Safety Handbook**, 2010. National Elevators Industry Inc. [https://www.qualityelevator.com/assets/1/6/Complete\\_Safety\\_Handbook.pdf](https://www.qualityelevator.com/assets/1/6/Complete_Safety_Handbook.pdf)
- **NFPA 70 - National Electric Code 2017**, 2017. ISBN: 978-145591277-3. National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471. Available at [www.nfpa.org](http://www.nfpa.org).

- **Trade Knowledge**. Prov, 13614 Progress Blvd., Alachua, FL 32615. This reference is not a book for purchase. This reference represents the general knowledge that a candidate gains through experience in their trade.
- **Vermont Statutes Title 26 Chapter 15**. State of Vermont. <https://legislature.vermont.gov/statutes/fullchapter/26/015>

## Plumbing Exams

### Vermont Electrical Well Pumps

A Vermont licensed Type-S Journeyman electrician for Electrical Well Pumps is entitled to perform specialty electrical installations after completing an accredited training and experience program recognized by the board; or having acceptable training and experience. The licensed person must pass a separate exam in the specialty selected, Electrical Well Pumps.

<b>Number of Questions</b>	<b>40</b>
<b>Time allowed (hours)</b>	<b>2</b>
<b>Subject Area</b>	<b># Quest.</b>
General Electrical Knowledge	6
Wiring & Protection	14
Wiring Methods & Materials	7
Motors & Controls	11
Local Amendments	2

### References

- **2017 State of Vermont Electrical Safety Rules**. State of Vermont. <https://firesafety.vermont.gov/buildingcode>
- **NFPA 70 - National Electric Code 2017**, 2017. ISBN: 978-145591277-3. National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471. Available at [www.nfpa.org](http://www.nfpa.org).
- **Ugly's Electrical References**, 2017. ISBN: 978-1-284-11936-7. Jones and Bartlett Publishers, 40 Tall Pine Dr., Sudbury, ME 01776. Available at [www.uglys.net](http://www.uglys.net).

## Vermont Refrigeration and Air Conditioning Electrical

A Vermont licensed Type-S Journeyman electrician for Refrigeration and Air Conditioning Electrical is entitled to perform specialty electrical installations after completing an accredited training and experience program recognized by the board; or having acceptable training and experience. The licensed person must pass a separate exam in the specialty selected, Refrigeration and Air Conditioning Electrical.

<b>Number of Questions</b>	<b>35</b>
<b>Time allowed (hours)</b>	<b>1.5</b>
<b>Subject Area</b>	<b># Quest.</b>
General Electrical Knowledge	10

Motors & Controls	18
Low Voltage	5
Local Amendments	2

## References

- **2017 State of Vermont Electrical Safety Rules**. State of Vermont. <https://firesafety.vermont.gov/buildingcode>
- **Modern Refrigeration and Air Conditioning**, 20th Edition. ISBN: 978-1-63126-354-5. Goodheart-Wilcox Company, Inc., 18604 West Creek Dr., Tinley Park, IL 60477-6243. Available @ [www.g-w.com](http://www.g-w.com)
- **NFPA 70 - National Electric Code 2017**, 2017. ISBN: 978-145591277-3. National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471. Available at [www.nfpa.org](http://www.nfpa.org).
- **Ugly's Electrical References**, 2017. ISBN: 978-1-284-11936-7. Jones and Bartlett Publishers, 40 Tall Pine Dr., Sudbury, ME 01776. Available at [www.uglys.net](http://www.uglys.net).

## Vermont Heating System Specialist

Installation, replacement, and repair of residential, industrial, or commercial hydronic space heating systems, including radiant, solar and other types of hydronic system design. Any work on steam systems shall be limited to steam systems with operating pressure not to exceed 15 PSIG.

<b>Number of Questions</b>	<b>60</b>
<b>Time allowed (hours)</b>	<b>3</b>
<b>Subject Area</b>	<b># Quest.</b>
General Knowledge	16
Hydronic Systems	8
Piping, Pumps, Valves	8
Fuel Gas and Oil	4
Low Pressure Steam Boilers	8
Water	6
Testing and Inspection	6
Local Amendments	4

## References

- **2015 State of Vermont Plumbing Rules**, 2015. State of Vermont. <https://firesafety.vermont.gov>
- **International Plumbing Code 2018**, 2018. ISBN: 978-1-60983-745-7. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478. available @ [iccsafe.org](mailto:iccsafe.org)
- **Low Pressure Boilers**, 5th. American Technical Publishers, 10100 Orland Parkway Suite 200, Orland Park, IL 60467-5756. Available at [www.go2atp.com](http://www.go2atp.com).
- **Modern Refrigeration and Air Conditioning**, 20th Edition. ISBN: 978-1-63126-354-5. Goodheart-Wilcox Company, Inc., 18604 West Creek Dr., Tinley Park, IL 60477-6243. Available @ [www.g-w.com](http://www.g-w.com)
- **NFPA 31-Standard for the Installation of oil-burning equipment**, 2011. ISBN: 978-161665699-7. National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471. available at [www.NFPA.org](http://www.NFPA.org)

- **NFPA 54 National Fuel Gas Code 2015**, 2015. National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471. available at [NFPA.org](http://NFPA.org)
- **NFPA 58: Liquefied Petroleum Gas Code**, 2014. ISBN: 978-145590711-3. National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471. available at [www.nfpa.org](http://www.nfpa.org)

## Vermont Commercial Fire Alarm

A Vermont licensed Type-S Journeyman electrician for Commercial Fire Alarm is entitled to perform specialty electrical installations after completing an accredited training and experience program recognized by the board; or having acceptable training and experience. The licensed person must pass a separate exam in the specialty selected, Commercial Fire Alarm.

<b>Number of Questions</b>	<b>55</b>
<b>Time allowed (hours)</b>	<b>2.5</b>
<b>Subject Area</b>	<b># Quest.</b>
General Electrical Knowledge	6
Installation Requirements Electrical	6
Initiating Devices	5
Notification Appliances & Signaling Circuits	12
Systems Testing	12
Supervisory Stations	9
Local Amendments	5

## References

- **2015 Vermont Fire and Building Safety Code**, 2015. State of Vermont. <https://firesafety.vermont.gov/buildingcode>
- **2017 State of Vermont Electrical Safety Rules**. State of Vermont. <https://firesafety.vermont.gov/buildingcode>
- **International Building Code**, 2018. ISBN: 978-1-60983-735-8. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478. Available at [@iccsafe.org](mailto:iccsafe.org).
- **NFPA 101- Life Safety Code Handbook**, 2015. National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471. <https://catalog.nfpa.org>
- **NFPA 70 - National Electric Code 2017**, 2017. ISBN: 978-145591277-3. National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471. Available at [www.nfpa.org](http://www.nfpa.org).
- **NFPA 72 - National Fire Alarm and Signaling Code**, 2013. ISBN: 978-145590411-2. National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471. Available at [www.nfpa.org](http://www.nfpa.org).
- **Trade Knowledge**. Prov, 13614 Progress Blvd., Alachua, FL 32615. This reference is not a book for purchase. This reference represents the general knowledge that a candidate gains through experience in their trade.

- **Ugly's Electrical References**, 2017. ISBN: 978-1-284-11936-7. Jones and Bartlett Publishers, 40 Tall Pine Dr., Sudbury, ME 01776. Available at [www.uglys.net](http://www.uglys.net).
- **Vermont Statutes Title 26 Chapter 15**. State of Vermont. <https://legislature.vermont.gov/statutes/fullchapter/26/015>

## Vermont Master Plumber

Those who have the knowledge and skill to install, maintain, repair, alter or extend plumbing, sanitary drainage or storm drainage facilities, venting systems, public and private water supply systems, septic tanks, drainage and supply wells, swimming pool piping; irrigation systems; or solar heating water systems and all appurtenances, apparatus, or equipment used in connection therewith, including boilers and pressure process piping and including the installation of water and storm and sewer lines, water and sewer plants and substations.

<b>Number of Questions</b>	<b>102</b>
<b>Time allowed (hours)</b>	<b>3</b>
<b>Subject Area</b>	<b># Quest.</b>
General Knowledge & Plumbing Math	10
Fixtures & Fittings	6
Water Heaters	6
Water Supply and Distribution	12
Sanitary Drainage & Indirect/Special Waste	16
Vents & Vent Systems	18
Traps, Interceptors & Separators	8
Storm & Roof Drainage	6
Plan Reading & Isometrics	12
Safety	8

### References

- **2015 State of Vermont Plumbing Rules**, 2015. State of Vermont. <https://firesafety.vermont.gov>
- **Basic Safety**, ISBN: 9781323676189. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at [www.provbookstore.com](http://www.provbookstore.com).
- **International Plumbing Code 2018**, 2018. ISBN: 978-1-60983-745-7. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478. available @[iccsafe.org](mailto:iccsafe.org)

## Electrical Exams

### Vermont Master Electrician

A Vermont licensed master electrician is entitled to design, install, repair, maintain, and replace electrical installations including lightning rods, fire alarms, fire detection systems and may employ other persons licensed under Vermont licensing statutes or electrician's helpers to perform work in connection with electrical installations under his or her direction.

<b>Number of Questions</b>	<b>105</b>
<b>Time allowed (hours)</b>	<b>5</b>
<b>Subject Area</b>	<b># Quest.</b>
Equipment for General Use	10
General Electrical Knowledge	12
Motors & Controls	11
Special Conditions	4
Special Equipment	4
Special Occupancies	4
Wiring & Protection	37
Wiring Methods & Materials	18
Local Amendments	5

### References

- **2017 State of Vermont Electrical Safety Rules**. State of Vermont. <https://firesafety.vermont.gov/buildingcode>
- **NFPA 70 - National Electric Code 2017**, 2017. ISBN: 978-145591277-3. National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471. Available at [www.nfpa.org](http://www.nfpa.org).
- **Ugly's Electrical References**, 2017. ISBN: 978-1-284-11936-7. Jones and Bartlett Publishers, 40 Tall Pine Dr., Sudbury, ME 01776. Available at [www.uglys.net](http://www.uglys.net).
- **Vermont Statutes Title 26 Chapter 15**. State of Vermont. <https://legislature.vermont.gov/statutes/fullchapter/26/015>

### Vermont Journeyman Electrician

A Vermont licensed journeyman electrician is entitled to perform electrical installations under the direction of a master electrician, and may supervise an apprentice electrician or an electrician's helper employed by a master electrician under the master electrician's direction.

<b>Number of Questions</b>	<b>90</b>
<b>Time allowed (hours)</b>	<b>4</b>
<b>Subject Area</b>	<b># Quest.</b>
General Electrical Theory & Principles	7
Wiring & Protection	30
Wiring Methods & Materials	20
Motors & Controls	3

Equipment for General Use	15
Special Occupancies	4
Special Equipment	3
Special Conditions	3
Local Amendments	5

### References

- **2017 State of Vermont Electrical Safety Rules**. State of Vermont. <https://firesafety.vermont.gov/buildingcode>
- **NFPA 70 - National Electric Code 2017**, 2017. ISBN: 978-145591277-3. National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471. Available at [www.nfpa.org](http://www.nfpa.org).
- **Ugly's Electrical References**, 2017. ISBN: 978-1-284-11936-7. Jones and Bartlett Publishers, 40 Tall Pine Dr., Sudbury, ME 01776. Available at [www.uglys.net](http://www.uglys.net).
- **Vermont Statutes Title 26 Chapter 15**. State of Vermont. <https://legislature.vermont.gov/statutes/fullchapter/26/015>

## Vermont Electric Lock Installation

A Vermont licensed Type-S Journeyman electrician for Electric Lock Installation is entitled to perform specialty electrical installations after completing an accredited training and experience program recognized by the board; or having acceptable training and experience. The licensed person must pass a separate exam in the specialty selected, Electric Lock Installation.

<b>Number of Questions</b>	<b>35</b>
<b>Time allowed (hours)</b>	<b>1.5</b>
<b>Subject Area</b>	<b># Quest.</b>
General Electrical Knowledge	5
Wiring Methods & Materials	8
Wiring & Protection	5
Special Conditions	10
Egress	5
Local Amendments	2

### References

- **2017 State of Vermont Electrical Safety Rules**. State of Vermont. <https://firesafety.vermont.gov/buildingcode>
- **NFPA 101- Life Safety Code Handbook**, 2015. National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471. <https://catalog.nfpa.org>
- **NFPA 70 - National Electric Code 2017**, 2017. ISBN: 978-145591277-3. National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471. Available at [www.nfpa.org](http://www.nfpa.org).
- **Ugly's Electrical References**, 2017. ISBN: 978-1-284-11936-7. Jones and Bartlett Publishers, 40 Tall Pine Dr., Sudbury, ME 01776. Available at [www.uglys.net](http://www.uglys.net).
- **Vermont Statutes Title 26 Chapter 15**. State of Vermont. <https://legislature.vermont.gov/statutes/fullchapter/26/015>

## Vermont Automatic Gas and Oil Heating

A Vermont licensed Type-S Journeyman electrician for Automatic Gas and Oil Heating is entitled to perform specialty electrical installations after completing an accredited training and experience program recognized by the board; or having acceptable training and experience. The licensed person must pass a separate exam in the specialty selected, Automatic Gas and Oil Heating.

<b>Number of Questions</b>	<b>40</b>
<b>Time allowed (hours)</b>	<b>1.5</b>
<b>Subject Area</b>	<b># Quest.</b>
General Electrical Knowledge	5
Motors & Controls	10
Wiring Methods & Materials	13
Wiring & Protection	10
Local Amendments	2

### References

- **2017 State of Vermont Electrical Safety Rules**. State of Vermont. <https://firesafety.vermont.gov/buildingcode>
- **Modern Refrigeration and Air Conditioning**, 20th Edition. ISBN: 978-1-63126-354-5. Goodheart-Wilcox Company, Inc., 18604 West Creek Dr., Tinley Park, IL 60477-6243. Available @ [www.g-w.com](http://www.g-w.com)
- **NFPA 70 - National Electric Code 2017**, 2017. ISBN: 978-145591277-3. National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471. Available at [www.nfpa.org](http://www.nfpa.org).
- **Ugly's Electrical References**, 2017. ISBN: 978-1-284-11936-7. Jones and Bartlett Publishers, 40 Tall Pine Dr., Sudbury, ME 01776. Available at [www.uglys.net](http://www.uglys.net).
- **Vermont Statutes Title 26 Chapter 15**. State of Vermont. <https://legislature.vermont.gov/statutes/fullchapter/26/015>

## Vermont Journeyman Plumber

Perform work under the supervision and in the employ of a state certified plumber or a locally licensed master plumber.

<b>Number of Questions</b>	<b>83</b>
<b>Time allowed (hours)</b>	<b>3</b>
<b>Subject Area</b>	<b># Quest.</b>
General Knowledge & Plumbing Math	8
Fixtures & Fittings	5
Water Heaters	5
Water Supply and Distribution	8
Sanitary Drainage & Indirect/Special Waste	15
Vents & Vent Systems	15
Traps, Interceptors & Separators	5
Storm & Roof Drainage	5
Plan Reading & Isometrics	10
Safety	7

**References**

- **2015 State of Vermont Plumbing Rules**, 2015. State of Vermont. <https://firesafety.vermont.gov>
- **Basic Safety**, ISBN: 9781323676189. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at [www.provbookstore.com](http://www.provbookstore.com).
- **International Plumbing Code 2018**, 2018. ISBN: 978-1-60983-745-7. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478. available @iccsafe.org

## Vermont Gas Pump Installation and Bulk Plant Works

A Vermont licensed Type-S Journeyman electrician for Gas Pump Installation and Bulk Plant Works is entitled to perform specialty electrical installations after completing an accredited training and experience program recognized by the board; or having acceptable training and experience. The licensed person must pass a separate exam in the specialty selected, Gas Pump Installation and Bulk Plant Works.

<b>Number of Questions</b>	<b>55</b>
<b>Time allowed (hours)</b>	<b>2.5</b>
<b>Subject Area</b>	<b># Quest.</b>
General Electrical Knowledge	5
Wiring Methods & Materials	14
Wiring & Protection	13
Motors & Controls	8
Special Occupancies	13
Local Amendments	2

**References**

- **2017 State of Vermont Electrical Safety Rules**. State of Vermont. <https://firesafety.vermont.gov/buildingcode>
- **NFPA 70 - National Electric Code 2017**, 2017. ISBN: 978-145591277-3. National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471. Available at [www.nfpa.org](http://www.nfpa.org).
- **Ugly's Electrical References**, 2017. ISBN: 978-1-284-11936-7. Jones and Bartlett Publishers, 40 Tall Pine Dr., Sudbury, ME 01776. Available at [www.uglys.net](http://www.uglys.net).
- **Vermont Statutes Title 26 Chapter 15**. State of Vermont. <https://legislature.vermont.gov/statutes/fullchapter/26/015>

## Vermont Water Treatment Specialist

Installation, replacement, and repair of residential, industrial, or commercial potable water treatment and filtration equipment.

<b>Number of Questions</b>	<b>40</b>
<b>Time allowed (hours)</b>	<b>2</b>
<b>Subject Area</b>	<b># Quest.</b>
General Requirements	7
Installation	5
Water Supply and Distribution	9
Piping Valves & Fittings	4
Water Treatments	3
Pressure Tanks	4
Safety Devices	4
Safety	4

**References**

- **2015 State of Vermont Plumbing Rules**, 2015. State of Vermont. <https://firesafety.vermont.gov>
- **Basic Safety**, ISBN: 9781323676189. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at [www.provbookstore.com](http://www.provbookstore.com).
- **International Plumbing Code 2018**, 2018. ISBN: 978-1-60983-745-7. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478. available @iccsafe.org

## Vermont Water Heater Specialist

Installation, replacement, and repair of any residential, industrial, or commercial domestic hot water supply tanks.

<b>Number of Questions</b>	<b>30</b>
<b>Time allowed (hours)</b>	<b>2</b>
<b>Subject Area</b>	<b># Quest.</b>
General Requirements	5
Installation	12
Water Supply and Distribution	4
Piping Valves & Fittings	4
Safety Devices	3
Safety	2

**References**

- **2015 State of Vermont Plumbing Rules**, 2015. State of Vermont. <https://firesafety.vermont.gov>
- **Basic Safety**, ISBN: 9781323676189. Prentice Hall, P.O. Box 11071, Des Moines, IA 50336. Available at [www.provbookstore.com](http://www.provbookstore.com).
- **International Plumbing Code 2018**, 2018. ISBN: 978-1-60983-745-7. International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478. available @iccsafe.org

## Vermont Solar Photovoltaic Installation Electrician

A Vermont licensed Type-S Journeyman electrician for Solar Photovoltaic Installation is entitled to perform specialty electrical installations after completing an accredited training and experience program recognized by the board; or having acceptable training and experience. The licensed person must pass a separate exam in the specialty selected, Solar Photovoltaic Installation.

<b>Number of Questions</b>	<b>30</b>
<b>Time allowed (hours)</b>	<b>1</b>
<b>Subject Area</b>	<b># Quest.</b>
General Electrical Knowledge	6
Solar Energy and Photovoltaic Fundamentals and Safety	9
Solar Photovoltaic System Components, Equipment, and Grounding	8
Solar Photovoltaic System Conductors, Methods, and Materials	7

### References

- **NFPA 70 - National Electric Code 2017**, 2017. ISBN: 978-145591277-3. National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471. Available at [www.nfpa.org](http://www.nfpa.org).
- **Photovoltaic Power Systems**, 3rd. ISBN: 978-1890659813. International Association of Electrical Inspectors, 901 Waterfall Way, Suite 602, Richardson, TX 75080. <https://www.iaei.org>
- **Trade Knowledge**. Prov, 13614 Progress Blvd., Alachua, FL 32615. This reference is not a book for purchase. This reference represents the general knowledge that a candidate gains through experience in their trade.

## Appliance and Motor Repairs

A Vermont licensed Type-S Journeyman electrician for Appliance and Motor Repairs is entitled to perform specialty electrical installations after completing an accredited training and experience program recognized by the board; or having acceptable training and experience. The licensed person must pass a separate exam in the specialty selected, Appliance and Motor Repairs.

<b>Number of Questions</b>	<b>35</b>
<b>Time allowed (hours)</b>	<b>2</b>
<b>Subject Area</b>	<b># Quest.</b>
General Electrical Knowledge	11
Wiring & Protection	5
Wiring Methods & Materials	6
Motors & Controls	6
Equipment for General Use	7

### References

- **American Electrician's Handbook**, 16th Edition. ISBN: 978-0071798808. McGraw Hill Glencoe Order Services, P.O. Box 545, Blacklick, OH 43004. Available at [www.amazon.com](http://www.amazon.com)
- **NFPA 70 - National Electric Code 2017**, 2017. ISBN: 978-145591277-3. National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471. Available at [www.nfpa.org](http://www.nfpa.org).

## Farm Equipment

A Vermont licensed Type-S Journeyman electrician for Farm Equipment is entitled to perform specialty electrical installations after completing an accredited training and experience program recognized by the board; or having acceptable training and experience. The licensed person must pass a separate exam in the specialty selected, Farm Equipment.

<b>Number of Questions</b>	<b>35</b>
<b>Time allowed (hours)</b>	<b>2</b>
<b>Subject Area</b>	<b># Quest.</b>
General Electrical Knowledge	11
Wiring & Protection	5
Wiring Methods & Materials	6
Motors & Controls	6
Equipment for General Use	7

### References

- **American Electrician's Handbook**, 16th Edition. ISBN: 978-0071798808. McGraw Hill Glencoe Order Services, P.O. Box 545, Blacklick, OH 43004. Available at [www.amazon.com](http://www.amazon.com)
- **NFPA 70 - National Electric Code 2017**, 2017. ISBN: 978-145591277-3. National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471. Available at [www.nfpa.org](http://www.nfpa.org).

## Lightning Rod Installations

A Vermont licensed Type-S Journeyman electrician for Lightning Rod Installations is entitled to perform specialty electrical installations after completing an accredited training and experience program recognized by the board; or having acceptable training and experience. The licensed person must pass a separate exam in the specialty selected, Lightning Rod Installations.

<b>Number of Questions</b>	<b>35</b>
<b>Time allowed (hours)</b>	<b>2</b>
<b>Subject Area</b>	<b># Quest.</b>
General Electrical Knowledge	7
Hazardous Structures	4
Heavy Duty Stacks	4
Ordinary Structures	7
Safety	4
Special Occupancies	2
Wind Turbines and Watercraft	3
Special Equipment	4

**References**

- American Electrician's Handbook, 16th Edition. ISBN: 978-0071798808. McGraw Hill Glencoe Order Services, P.O. Box 545, Blacklick, OH 43004. Available at www.amazon.com
- NFPA 70 - National Electric Code 2017, 2017. ISBN: 978-145591277-3. National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471. Available at www.nfpa.org.
- NFPA 780 Standard for the Installation of Lightning Protection Systems, 2011. National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471. Available at www.nfpa.org.
- Trade Knowledge. Prov, 13614 Progress Blvd., Alachua, FL 32615. This reference is not a book for purchase. This reference represents the general knowledge that a candidate gains through experience in their trade.

**Outdoor Advertising**

A Vermont licensed Type-S Journeyman electrician for Outdoor Advertising is entitled to perform specialty electrical installations after completing an accredited training and experience program recognized by the board; or having acceptable training and experience. The licensed person must pass a separate exam in the specialty selected, Outdoor Advertising

<b>Number of Questions</b>	<b>35</b>
<b>Time allowed (hours)</b>	<b>2</b>
<b>Subject Area</b>	<b># Quest.</b>
Basic Electricity & Wiring	4
Electrical Signs & Outline Lighting	14
Grounding & Bonding	4
Motors & Controls	3
Transformers	3
Wiring & Protection	3
Wiring Methods & Materials	4

**References**

- American Electrician's Handbook, 16th Edition. ISBN: 978-0071798808. McGraw Hill Glencoe Order Services, P.O. Box 545, Blacklick, OH 43004. Available at www.amazon.com
- NFPA 70 - National Electric Code 2017, 2017. ISBN: 978-145591277-3. National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169-7471. Available at www.nfpa.org.

**SAMPLE TEST QUESTIONS**

The following are sample questions that reflect the format and style of the questions found on exams.

1. The bonding conductor used to connect the bonding grid on a swimming pool shall NOT be smaller than a solid #
  - a. 10 AWG.
  - b. 8 AWG.
  - c. 6 AWG.
  - d. 4 AWG.
2. What does the alpha character I represent when stating the equation  $P = E \times I$ ?
  - a. Intrinsic circuit
  - b. Intrinsic electromotive force
  - c. Intensity of current
  - d. Isotopic character
3. If 15 amp circuits were used, the NEC would require a 2000 square foot house to have a MINIMUM of how many branch circuits?
  - a. 2
  - b. 3
  - c. 4
  - d. 5
4. Equipment that is electrically connected to a telecommunications network is required to be listed in accordance with section \_\_\_\_\_ of the NEC.
  - a. 110.16
  - b. 240.6
  - c. 800.18
  - d. Chapter 9, Table 5(A)
5. A required emergency standby generator that utilizes an internal combustion engine as the "prime mover" is required to have sufficient fuel supply on premises to operate for a period of NOT less than \_\_\_ hours at full demand operation of the system.
  - a. 24
  - b. 12
  - c. 8
  - d. 2

6. Which section of the NEC determines the installation of service equipment on manufactured buildings?
  - a. 230.60
  - b. 230.70
  - c. 240.6
  - d. 250.66
  
7. The MAXIMUM ampacity of an individual branch circuit using type FCC cable is
  - a. 15 amps.
  - b. 20 amps.
  - c. 30 amps.
  - d. 50 amps.
  
8. The MINIMUM service demand for 10-8 kW ranges in an apartment complex would be
  - a. 80 kW.
  - b. 27.2 kW.
  - c. 25 kW.
  - d. 16 kW.

#### ANSWERS TO SAMPLE QUESTIONS

1. **B** - 8 AWG.
2. **C** - Intensity of current
3. **C** - 4
4. **C** - 800.18
5. **D** - 2.
6. **B** - 230.70.
7. **C** - 30 amps
8. **C** - 25 kW

#### TEST SITE INSTRUCTIONS



# Pro<sup>✓</sup>Candidate Instructions Handout

Please take a moment to read the following information (front and back). If you have any questions then please let your proctor know. Failure to follow these testing rules can have serious consequences.

**Be advised, the testing center and testing room may be under video surveillance.**

## Testing Rules

- Be courteous and do not disturb others.
- After you are seated, follow all the instructions given and verify the information presented to you. This information will include your name, candidate ID, exam name, and occasionally additional testing Materials such as graphics.
- If you leave the testing room during the test, you must notify your proctor and turn in all your testing materials.
- If you take a restroom break the test time will continue to countdown and the lost time cannot be recovered.
- If your computer freezes, shuts down, or will not move to the next question notify your proctor immediately and they will be able to restart your exam without loss of available testing time.
- At the end of your test, remain seated, raise your hand and wait for the proctor to start the check-out process with you. Once all testing materials have been accounted for by your proctor, you may collect your belongings and leave the testing center.
- If permitted by your jurisdiction, you will receive your testing results today; otherwise, you'll be notified of your testing results by either Pro<sup>✓</sup> or your jurisdiction.



## Reference Rules for Open Book Exams

- Book title must be exact. *Exceptions:* Older/new editions are always permitted. Substitutes are allowed if listed in the Exam Details.
- Photocopied versions of a reference book are ONLY permitted when stated in the Exam Details.
- Permanent tabs such as gummed tabs, self-adhesive tabs with printable inserts, or insertable tab dividers (for three ring binders only) are permitted.
- Moveable items such as repositionable tabs or Post-it notes are NOT permitted in a reference book.
- Books can have highlighting and underlining in pen only, however you cannot mark in your books during the test.
- Handwritten notes are NOT allowed in any portion of a reference book unless authorized by your licensing or certifying jurisdiction.
- Other documents (such as formula sheets or the Tom Henry and Kelly Indexes) or stickers (such as Ohm's Law) CANNOT be added, glued or taped to a reference book.

## Unethical behavior

Individuals caught giving or receiving assistance during or after the examination, or caught using unauthorized materials during the examination will be reported to the Board. Those caught in the act of cheating will be dismissed from the examination and their testing results will be frozen. Furthermore, the candidate will forfeit the examination fees paid. Finally, anyone caught with test questions in their possession, either during or following the examination will be prosecuted by Pro<sup>✓</sup> for theft of copyrighted testing materials.

**In the next few days, Pro<sup>✓</sup> will email you a link to our candidate experience survey, please let us know how we did!**

## Computer Testing Navigation

Total number of questions	Indicated in the upper right-hand corner of the screen.
Available time	Posted in hours and minutes. The test will end automatically when <b>Time Remaining</b> reaches 0:00.
Selecting your answer	Use your mouse to select a number ( <b>1, 2, 3, or 4</b> ). The answer is highlighted (or checked) when selected. You may change your selected answer for any question until the test is over. If you do not know the answer to a question, it is to your advantage to guess, since there is no penalty for a wrong answer.
Tracking difficult questions	Press the <b>Flag</b> Button to help you keep track of questions you wish to return to at a later time. Flagging questions has no impact in scoring. Press the button again to Unflag the question. You may see which questions have been flagged by clicking <b>Summary</b> .
Question comments	During the assessment, you may find that you have a question or concern about a particular test question. The proctor cannot answer questions about test content at any time; however, you can send a comment to Prov's Test Development Department by clicking the <b>Comment</b> button. Please leave a specific description. Staff will process your comments/questions within two weeks. You can refer to your candidate information bulletin for more information on how comments are processed.
Moving to a different question	Use your mouse to select the <b>Next</b> or <b>Back</b> buttons. Press Next to move forward. Press Back to move backward. You may also use your arrow keys ( ← → ) to move forward and backward through the test.
Reviewing your progress	Press the <b>Summary</b> button to see a table indicating which questions are unanswered or which you have flagged.
Ending the test early	Press <b>End Test</b> button when you are ready to leave the test. It is recommended that you review your exam and verify there are no unanswered questions prior to ending the test.