



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

**WASHINGTON STATE  
DEPARTMENT OF LABOR & INDUSTRIES**



**ELECTRICAL CERTIFICATION  
CANDIDATE INFORMATION BULLETIN**

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**Please refer to our website to check for the most updated information in this bulletin  
Go to [www.psiexams.com](http://www.psiexams.com)**

## EXAMINATIONS BY PSI

This Candidate Information Bulletin provides you with information about the examination and application process for certification in Washington as an electrician, master electrician, modified trainee, electrical and telecommunications administrator.

The State has contracted with PSI Services LLC (PSI) to conduct its examination program. PSI works closely with the State to be certain that the examination meets local as well as national requirements in basic principles and examination development standards.

## GUIDELINES FOR CERTIFICATION

### HOW TO OBTAIN A CERTIFICATION

1. Before you can take the examination, you must apply and be approved by the Department of Labor and Industries, Electrical Program. Applications may be obtained from the department or online at <http://www.lni.wa.gov/tradescicensing/electrical/default.asp>.  
Washington State  
Department of Labor & Industries  
7273 Linderson Way SW  
Tumwater, WA 98501-5414  
Phone: 360-902-5269
2. Once the department has approved you for testing, you will receive an eligibility notice.
3. Denied candidates are notified by the department of the elements they need to complete in order to be approved.

**Please note that Administrators do not need to apply to the department until they have passed the exam. Once all exams for the certification are passed, the candidate must apply to the department within 90 days of the last passing score.**

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

PSI Services LLC  
3210 E Tropicana  
Las Vegas, NV 89121  
(800) 733-9267 • Fax (702) 932-2666  
[www.psiexams.com](http://www.psiexams.com)

## EXAMINATION SCHEDULING PROCEDURES

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

- You have one year from your approval date to pass all sections of the examination. After that year is over, if you have not successfully passed all sections you have to re-apply with the Department. Please note if you fail you must wait 14 days to retest.

If you fail a 3<sup>rd</sup> attempt or more within the one year period, you must wait 3 months from the last fail date to retest for each future attempt.

- For the Modified Trainee examination, if you don't pass within one year, your approval to test will expire. You must contact the Department of Labor & Industries for information regarding application requirements.
- When scheduling an examination, keep in mind that there are several categories of electrical work (i.e., general, residential, telecommunications). A separate examination is offered for each category. These separate sections need to be scheduled for the same examination day.
- Examination fees are valid for one year.

## FEES

PSI charges per hour for most examinations. Examinations that are based on a series of separate sections, however, such as the Master Electrician exam, will be billed at a flat rate. This is regardless of how many sections you take, complete, or how long you spend on the examination. But if you retest on this examination within a year, you will be billed per hour on the retest sections.

| Exam Time | Fee      |
|-----------|----------|
| 1 hour    | \$45.00  |
| 2 hours   | \$55.00  |
| 3 hours   | \$65.00  |
| 4 hours   | \$75.00  |
| 5 hours   | \$85.00  |
| 6 hours   | \$95.00  |
| 7 hours   | \$105.00 |

**NOTE: REGISTRATION FEES ARE NOT REFUNDABLE OR TRANSFERABLE**

## INTERNET REGISTRATION

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

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

## TELEPHONE REGISTRATION

PSI registrars are available at (800) 733-9267, Monday through Friday, between 4:30 am and 7:00 pm or Saturday and Sunday, between 6:00 am and 2:30 pm, Pacific Time, to schedule your appointment for the examination.



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

### FAX REGISTRATION

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

1. Complete the Examination Registration Form, including your credit card number and expiration date.
2. Fax the completed form to PSI (702) 932-2666. Fax registrations are accepted 24 hours a day.
3. If your information is incomplete or incorrect, it will be returned for correction.
4. Please allow 4 business days to process your Registration. After 4 business days, you may call PSI to schedule the examination, (800) 733-9267.

### STANDARD MAIL REGISTRATION

In order to register by standard mail, please follow the steps below.

1. Complete the PSI registration Form. **BE SURE TO READ ALL DIRECTIONS CAREFULLY BEFORE COMPLETING THE EXAMINATION REGISTRATION FORMS. IMPROPERLY COMPLETED FORMS WILL BE RETURNED TO YOU UNPROCESSED.**
2. Payment of fees may be made by credit card (Visa, MasterCard, American Express or Discover), money order, or personal, company, or cashier's check. Make your checks or money orders payable to PSI and print your ID number it to ensure that your fees are properly assigned. **CASH IS NOT ACCEPTED.**
3. Send the completed registration form and appropriate examination fee to PSI.

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If your application or fees are not correct, we will return them to you immediately with instructions on correct application procedures.

4. Please allow 2 weeks to process your Registration. After 2 weeks, you may call PSI to schedule the examination after 7:30 a.m., Eastern Time, (800) 733-9267.

### CANCEL OR RESCHEDULE AN EXAMINATION APPOINTMENT

You may cancel and reschedule an examination appointment without forfeiting your fee if your *cancellation notice is received 2 days before the scheduled examination date*. For example, for a Monday appointment, the cancellation notice would need to be received on the previous Saturday. You may call PSI at (800) 733-9267.

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

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

### EXAM ACCOMMODATIONS

All examination centers are equipped to provide access in accordance with the Americans with Disabilities Act (ADA) of 1990, and exam accommodations will be made in meeting a candidate's needs. Applicants with disabilities or those who would otherwise have difficulty taking the examination must contact the state for approval for exam accommodations. Please do NOT contact PSI.

Washington State  
Department of Labor & Industries  
7273 Linderson Way SW  
Tumwater, WA 98501-5414

### EXAMINATION SITE CLOSING FOR AN EMERGENCY

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



## EXAMINATION SITE LOCATIONS

The following are the examination centers where you may take the examination.

### Arlington

Arlington Flight Services at Arlington Municipal Airport  
18810 59th Dr NE, Bldg 44A  
Arlington, WA 98223

*From Interstate 5 take the WA-531/172nd St NE exit, exit 206. Go East on 172nd St NE. Turn left on 59th Ave NE. Turn left on 188th St NE. The test site will be straight ahead. It is a 2 story grey building that says Arlington Flight Services on it.*

### Bremerton

Avian Flight Center at Bremerton National Airport  
8900 State Hwy 3 SW, Suite 101  
Bremerton, WA 98367

*From Tacoma Narrows Bridge: Continue to Kitsap County (23.2 mi). Take exit 28 to WA-3 S. (4.1 mi). Destination is on left in Bremerton Airport.*

*From Bremerton/Seattle Ferry: Take Ferry Dock to Burwell St. (0.3 mi). Continue to N. Callow which becomes S. Charleston (1.5 mi). L at fork to WA-3 S, follow signs to WA-3 S (2.2 mi). Continue on WA-3 S (4.1 mi). Destination is on left in Bremerton Airport.*

*From Hood Canal Bridge: Head SE on WA-104 E (0.8 mi). Turn Rt. onto WA-3 S (25.4 mi). Continue on WA-3 S (4.1 mi). Destination is on left in Bremerton Airport.*

*From Port Orchard: Take WA-160/WA-166 (2.7 mi). Merge onto WA-16 W (.5 mi). Take the ramp toward WA-3 S/Belfair/Shelton. Turn left onto WA-3 (4.1 mi). Destination is on left in Bremerton Airport.*

*From Shelton: Head N on WA-3 N (25.8 mi). Destination is on right in Bremerton Airport.*

### Burlington

Glacier Aviation Inc at Skagit Regional Airport  
15053 Crosswind Dr  
Burlington, WA 98233

*From I-5 north or south: Take exit 230 for Anacortes Hwy/20 West. Drive west on Hwy 20 for 3.3 miles. Turn right on Higgins Airport Way where there is a stoplight and signs for Skagit Regional Airport. Drive .6 miles, then turn left on Crosswind Drive. Follow Crosswind Drive for .6 miles where you will see a blue hangar on the right with signs for Glacier Aviation and Heritage Flight Museum.*

### Everett

1010 S.E. Everett Mall Way, Suite 208  
Everett, WA 98208

*North on I-5, take Exit 189 (WA-526 W/WA-527 N to Mukilteo/Whidbey Is. Ferry/Broadway/Everett Mall Way). Bear right to WA-526 W / WA-527 N. You will see a sign reading "WA-527 N to Broadway/Everett Mall Way". At light, turn left on Bothell-Everett Hwy (SR-527) and go north for .5 mile to light at Broadway -get into left turn lane. Turn left onto Broadway which then becomes SE Everett Mall Way. Go approx .8; just past light at West Mall Dr get into middle left/right turn lane and turn left immediately before the Chevron gas station; proceed down lane approx. one block to 1010 behind the gas station.*

*South on I-5, take Exit 189 WA-526 W to Mukilteo/Whidbey Is. Ferry/Everett Mall Way - keep to the left. You will see a sign reading "to Everett Mall Way". Take ramp to right to light at Everett Mall Way. Proceed through light onto SE Everett Mall Way (stay in left lane). Go approx .8; just past light at West Mall Dr get into middle left/right turn lane and turn left immediately before the Chevron gas station; proceed down lane approx. one block to 1010 behind the gas station.*

### Federal Way (Seattle)

500 South 336th St., Suite 220  
Federal Way, WA 98003

*From I-5 to 320th street. Turn left on International (Pacific Hwy) (99). Turn right on 336th and pull in the 500 building parking lot.*

### Kent

Crest Airpark Airport  
29300 179th PL SE  
Kent, WA 98042

*From Seattle, take I-5 South to the 405 North Exit (154A) towards Renton. Take the Valley Freeway (WA-167) towards Auburn. Get off on the 84th Ave S Exit. Turn left at the light onto 84th Ave S (84th Ave becomes Central Ave N; Central Ave N becomes N Central Ave). Turn left onto E Smith (SR-516). Go straight to Canyon Dr/SE Kent Kangley Rd (SR-516). Stay on this road (Canyon Dr/SE Kent Kangley Rd becomes SE 256th St (SR-516). Stay to the right for SE Kent Kangley Rd (SE Kent Kangley Rd becomes 272nd St (SR-516). Turn right onto Covington Way SE. Turn right onto 179th Place (look for the small "airport" sign). As the road moves up the hill follow the road to the left*

### Olympia

3435 Martin Way E, Suite I  
Olympia, WA 98501

*From I-5 South, take exit 108B for Martin Way, toward Sleater-Kinney Road North. Make a right onto Martin Way and follow that straight for a little over one mile. The test center will be on your left (soon after passing the 7/11) and there is no turn lane, though you can turn from the main lane of traffic.*

*From I-5 North, take exit 108B for Martin Way, toward Sleater-Kinney Road North. Make a left onto Martin Way and follow that straight for a little over one mile. The test center will be on your left (soon after passing the 7/11) and there is no turn lane, though you can turn from the main lane of traffic.*

### Puyallup

SpanaFlight at Pierce County Airport  
16705 103rd Ave., Court E  
Pierce County Airport  
Puyallup, WA 98374

*From Tacoma, take I-705 South to I-5 South. Take exit 127 for WA-512 E toward Puyallup. Turn left at WA-512 E. Take the WA-161 S exit toward Eatonville. Turn right at 31st Ave SW, continuing straight onto WA-161/Meridian Ave E. Follow straight on Meridian Ave E / WA-161 for approximately 5 to 6 miles. Turn left at 168th St. E into Pierce County Airport. Follow straight on 168th St East. (The road ends with a fence straight ahead.) Turn right onto 103rd Avenue Court E. Then make an immediate left into the main parking lot. SpanaFlight is off to the left.*

### Seattle (Bellevue)

Newport Place  
4122 Factoria Blvd. S.E, Suite 303  
Bellevue, WA 98006

*From I-405 - Exit 10 for Coal Creek Parkway towards Factoria. Turn left onto 128th Ave SE/Factoria Blvd SE. The test center will be on the right.*

*From I-90 E - Take Exit 10B. Turn Right onto 128th Ave SE/Factoria Blvd SE. Make a U-turn at SE 41st Pl. The test center will be on the right.*

*From I-90 W - Take Exit 10 to I-405 S. Follow directions for I-405.*

### Snohomish

Snohomish Flying Service at Harvey Airfield  
9900 Airport Way  
Snohomish, WA 98296



From the South (Seattle, WA): Take Highway 520 East to Interstate 405. Take Interstate 405 North to Highway 522 (Bothell-Woodinville Exit). Take Highway 522 East to Highway 9 (Snohomish-Woodinville Exit). Take Highway 9 North for approximately 8.5 miles to the Airport Way/Marsh Road intersection. Turn right onto Airport Way. Keep left and follow Airport Way to the airport entrance (left side).

### Spokane

920 N Argonne Road, Suite 202  
Spokane Valley, WA 99212

From I-90 E - Take exit 287 for Argonne Rd. Turn right onto Argonne Rd. After about ½ mile the building will be on the left. If you reach Broadway Ave, you've gone too far.

From I-90 W - Take exit 287 for Argonne Rd. Turn left onto Argonne Rd. After about ½ mile the building will be on the left. If you reach Broadway Ave, you've gone too far.

### Tacoma

Tacoma Community College Testing Center  
6501 S 19th St, Building 6  
Tacoma, WA 98466

From North or South I-5 take Exit 132 (Bremerton/HWY 16). Follow HWY 16 to the South 19th Street (West) - Orchard Street (South) Exit. Turn right at Orchard Street. Turn right at 19th Street and travel approximately 1.5 miles. Turn right at Mildred Street. TCC is on the right.

### Vancouver

9013 N.E. Highway 99, Suite F  
Vancouver, WA 98665

From the South: merge onto I-5 N toward Seattle. Take the NE 78th St exit 4. Keep right at the fork to go on NE 78th St. Turn left onto NE Hwy 99.

From the East: turn onto NE Padden Pkwy W (Padden Pkwy becomes NE 78TH ST). Turn right onto NE Highway 99.

Coming from the North: merge onto I-5 South. Take the NE 99TH St exit 5. Keep left at the fork in the ramp. Turn left onto NE 99th St. Turn right on NE Highway 99.

Center is located in the first building, Suite F

### Yakima

3611 River Rd Suite 120  
Yakima, WA 98902

Going South on N 16th Ave, turn right on Fruitvale Blvd. Turn left onto River Road.

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 signing in 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 fee.*

### REQUIRED IDENTIFICATION AT EXAMINATION SITE

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

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

### SECURITY PROCEDURES

The following security procedures will apply during the examination:

- If you leave the testing room while the examination is in progress, you must sign out/in on the sign-in sheet and you will lose the examination time. You are not allowed to use any electronic devices or telephones during the examination.
- Only non-programmable calculators that are silent, battery-operated, do not have paper tape printing capabilities, and do not have a keyboard containing the alphabet will be allowed in the examination site. If the calculator is in question, you will be asked to use a calculator provided at the site.
- Candidates may take only approved items into the examination room.
- All personal belongings of candidates, with the exception of close-fitting jackets or sweatshirts, should be placed in the secure storage provided at each site prior to entering the examination room. Personal belongings include, but are not limited to, the following items:
  - **Electronic devices of any type**, including cellular / mobile phones, recording devices, electronic watches, cameras, pagers, laptop computers, tablet computers (e.g., iPads), music players (e.g., iPods), smart watches, radios, or electronic games.
  - **Bulky or loose clothing or coats** that could be used to conceal recording devices or notes, including coats, shawls, hooded clothing, heavy jackets, or overcoats.
  - **Hats or headgear not worn for religious reasons** or as religious apparel, including hats, baseball caps, or visors.
  - **Other personal items**, including purses, notebooks, reference or reading material, briefcases, backpacks, wallets, pens, pencils, other writing devices, food, drinks, and good luck items.
- Person(s) accompanying an examination candidate may not wait in the examination center, inside the building or on the building's property. This applies to guests of any nature, including drivers, children, friends, family, colleagues or instructors.
- No smoking, eating, or drinking is allowed in the examination center.
- During the check in process, all candidates will be asked if they possess any prohibited items. Candidates may also be asked to empty their pockets and turn them out for the proctor to ensure they are empty. The proctor may also ask candidates to lift up the ends of their sleeves and the bottoms of their pant legs to ensure that notes or recording devices are not being hidden there.
- Proctors will also carefully inspect eyeglass frames, tie tacks, or any other apparel that could be used to harbor a recording device. Proctors will ask to inspect any such items in candidates' pockets.



- If prohibited items are found during check-in, candidates shall put them in the provided secure storage or return these items to their vehicle. PSI will not be responsible for the security of any personal belongings or prohibited items.
- Any candidate possessing prohibited items in the examination room shall immediately have his or her test results invalidated, and PSI shall notify the examination sponsor of the occurrence.
- Any candidate seen giving or receiving assistance on an examination, found with unauthorized materials, or who violates any security regulations will be asked to surrender all examination materials and to leave the examination center. All such instances will be reported to the examination sponsor.
- Copying or communicating examination content is violation of a candidate’s contract with PSI, and federal and state law. Either may result in the disqualification of examination results and may lead to legal action.
- Once candidates have been seated and the examination begins, they may leave the examination room only to use the restroom, and only after obtaining permission from the proctor. Candidate will not receive extra time to complete the examination.

The “Function Bar” at the top of the test question provides mouse-click access to the features available while taking the examination.

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

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

### EXAMINATION REVIEW

PSI, in cooperation with the department, will be consistently evaluating the examinations being administered to ensure that the examinations accurately measure competency in the required knowledge areas. While taking the examination, examinees will have the opportunity to provide comments on any questions. Comments may be entered by clicking the Comments link on the function bar of the test question screen.

These comments will be analyzed by PSI examination development staff. PSI does not respond to individuals regarding these comments, all substantive comments are reviewed. **This is the only review of examination materials available to candidates.**

## TAKING THE EXAM BY COMPUTER

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

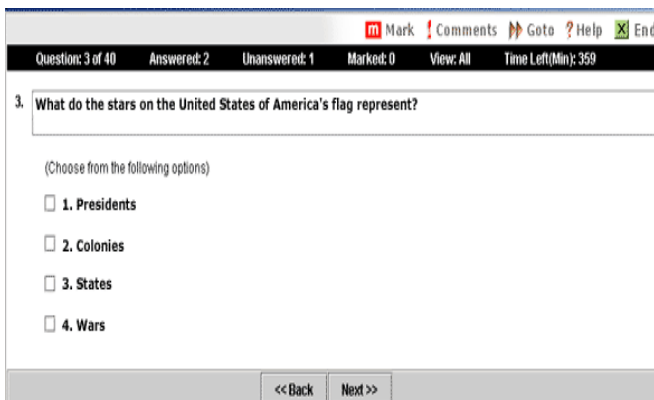
### IDENTIFICATION SCREEN

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

### TUTORIAL

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

### TEST QUESTION SCREEN



## SCORE REPORTING

You must score 70% to pass. Your score will be given to you immediately following completion of the examination. The following summary describes the score reporting process:

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

### DUPLICATE SCORE REPORTS

You may request a duplicate score report after your examination by emailing [scorereport@psionline.com](mailto:scorereport@psionline.com) or by calling 800-733-9267.

## TIPS FOR PREPARING FOR YOUR CERTIFICATION 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.

### EXPERIMENTAL QUESTIONS

In addition to the number of questions per examination, 10 “experimental” questions may be administered to candidates during the examinations. These questions will not be scored and the time taken to answer them will not count against examination time. The administration of such non-scored experimental questions is an essential step in developing future licensing examinations.

## EXAMINATION INFORMATION

All examinations are open book. It is okay to use **ANY** original copyrighted material (including material that contains questions and answers), and a silent, nonprinting, nonprogrammable calculator. If the calculator is in question, you will be asked to use a calculator provided at the site. Copies of the Washington state RCW/WAC downloaded from the internet are acceptable, provided they are in a binder. Copyrighted material may have highlighting, underlining, and index tabs (permanent only) prior to entering the examination area. Post-It, sticky, repositionable and other types of notes that are removable are not permitted. References may not be written in. **Please be aware that markings in books constitute an attempt to cheat on an examination.** Two sheets of paper and a pencil will be collected at end of the examination.

- **All examinations require that you have a working grasp of the National Electrical Code, Washington laws and rules, and a basic level of electrical theory knowledge.** All law, rule and code questions are based on the current version of the Revised Code of Washington (RCW) 19.28 and Washington Administrative Code (WAC) 296-46B, and the 2017 National Electrical Code.
- **It is recommended that you have appropriate classroom education to be successful in passing the exam.** On-the-job experience is typically not enough to ensure a passing grade.
- **You should be familiar with general copyrighted electrical or telecommunication publications, as well as general math and electrical theory computation.** All theory questions are general in nature and are based on information from general copyrighted electrical or telecommunication publications. Theory questions may include: general math and electrical theory computation questions.
- **Carefully check what you are expected to know for your exam.** Several specialties are allowed to perform the work of other specialties. The exams will reflect this expectation. In other words, you may be tested on multiple specialties and, if you are not prepared, the questions may be beyond your preparation. For example, 07C Nonresidential Restricted Maintenance Electricians are allowed to perform all the work of 07B Residential Maintenance Electricians; consequently, they must also be knowledgeable of work done as a 07B Residential Maintenance Electrician.

| Examination Content Outlines   |                    |           |                         |               |           |                         |              |           |
|--|--------------------|-----------|-------------------------|---------------|-----------|-------------------------|--------------|-----------|
| 01-General   |                    |           |                         |               |           |                         |              |           |
| Type of Certificate  | Master Electrician |           |                         | Administrator |           |                         | Electrician  |           |
| Examination Section  | NEC & Theory       | WA Codes  | Major Load Calculations | NEC & Theory  | WA Codes  | Major Load Calculations | NEC & Theory | WA Codes  |
| <b>Time Allowed per Section (hours)</b>  | <b>4</b>           | <b>1</b>  | <b>2</b>                | <b>4</b>      | <b>1</b>  | <b>2</b>                | <b>3</b>     | <b>1</b>  |
| <b>Knowledge Area</b>  |                    |           |                         |               |           |                         |              |           |
| NEC 90 - Introduction  | 2                  |           |                         | 2             |           |                         | 1            |           |
| NEC 100-110 - General Requirements   | 4                  |           |                         | 3             |           |                         | 3            |           |
| NEC 200-225, 280-285 - Wiring & Protection                                     | 3                  |           |                         | 3             |           |                         | 3            |           |
| NEC 230 - Services   | 5                  |           |                         | 5             |           |                         | 4            |           |
| NEC 240 - Overcurrent Protection   | 7                  |           |                         | 6             |           |                         | 6            |           |
| NEC 250 - Grounding & Bonding  | 7                  |           |                         | 6             |           |                         | 6            |           |
| NEC 300-398 - Wiring Methods   | 11                 |           |                         | 10            |           |                         | 10           |           |
| NEC 400-427, 455-480 - Electrical Equipment                                    | 4                  |           |                         | 3             |           |                         | 3            |           |
| NEC 430-450 - Motors, HVAC, Generators & Transformers                          | 5                  |           |                         | 4             |           |                         | 3            |           |
| NEC 490 - Equipment > 600 volts  | 1                  |           |                         | 1             |           |                         | 1            |           |
| NEC 500-516 - Hazardous Locations  | 4                  |           |                         | 3             |           |                         | 2            |           |
| NEC 517-590 - Special Occupancies  | 5                  |           |                         | 4             |           |                         | 4            |           |
| NEC 600-695 - Special Equipment  | 4                  |           |                         | 3             |           |                         | 3            |           |
| NEC 700-702 - Emergency & Standby Systems                                      | 3                  |           |                         | 2             |           |                         | 2            |           |
| NEC 705-780 - Special Conditions   | 2                  |           |                         | 1             |           |                         | 1            |           |
| NEC 800-830 - Communication Systems  | 1                  |           |                         | 1             |           |                         | 1            |           |
| Washington Laws & Rules (RCW & WAC)  |                    | 20        |                         |               | 17        |                         |              | 17        |
| Major Load Calculations  |                    |           | 10                      |               |           | 10                      |              |           |
| General Trade Knowledge & Theory   | 12                 |           |                         | 8             |           |                         | 7            |           |
| <b>Total Questions</b>   | <b>80</b>          | <b>20</b> | <b>10</b>               | <b>65</b>     | <b>17</b> | <b>10</b>               | <b>60</b>    | <b>17</b> |
| Note: The number of questions in any individual knowledge area is approximate. |                    |           |                         |               |           |                         |              |           |



| 02-Residential  |                    |           |                         |               |           |                         |              |           |
|---|--------------------|-----------|-------------------------|---------------|-----------|-------------------------|--------------|-----------|
| Type of Certificate                                   | Master Electrician |           |                         | Administrator |           |                         | Electrician  |           |
| Examination Section                                   | NEC & Theory       | WA Codes  | Major Load Calculations | NEC & Theory  | WA Codes  | Major Load Calculations | NEC & Theory | WA Codes  |
| <b>Time Allowed per Section (hours)</b>               | <b>3</b>           | <b>1</b>  | <b>2</b>                | <b>3</b>      | <b>1</b>  | <b>2</b>                | <b>2</b>     | <b>1</b>  |
| <b>Knowledge Area</b>                                 |                    |           |                         |               |           |                         |              |           |
| NEC 90 - Introduction                                 | 1                  |           |                         | 1             |           |                         | 1            |           |
| NEC 100-110 - General Requirements                    | 3                  |           |                         | 2             |           |                         | 2            |           |
| NEC 200-225, 280-285 - Wiring & Protection            | 3                  |           |                         | 2             |           |                         | 2            |           |
| NEC 230 - Services                                    | 4                  |           |                         | 4             |           |                         | 3            |           |
| NEC 240 - Overcurrent Protection                      | 6                  |           |                         | 5             |           |                         | 5            |           |
| NEC 250 - Grounding & Bonding                         | 6                  |           |                         | 5             |           |                         | 5            |           |
| NEC 300-398 - Wiring Methods                          | 9                  |           |                         | 9             |           |                         | 7            |           |
| NEC 400-427, 455-480 - Electrical Equipment           | 3                  |           |                         | 1             |           |                         | 1            |           |
| NEC 430-450 - Motors, HVAC, Generators & Transformers | 3                  |           |                         | 3             |           |                         | 3            |           |
| NEC 490 - Equipment > 600 volts                       |                    |           |                         |               |           |                         |              |           |
| NEC 500-516 - Hazardous Locations                     | 1                  |           |                         | 1             |           |                         | 1            |           |
| NEC 517-590 - Special Occupancies                     | 2                  |           |                         | 1             |           |                         | 1            |           |
| NEC 600-695 - Special Equipment                       | 4                  |           |                         | 2             |           |                         | 1            |           |
| NEC 700-702 - Emergency & Standby Systems             | 2                  |           |                         | 1             |           |                         | 1            |           |
| NEC 705-780 - Special Conditions                      | 2                  |           |                         | 1             |           |                         | 1            |           |
| NEC 800-830 - Communication Systems                   | 1                  |           |                         |               |           |                         |              |           |
| Washington Laws & Rules (RCW & WAC)                   |                    | 20        |                         |               | 17        |                         |              | 17        |
| Major Load Calculations                               |                    |           | 10                      |               |           | 10                      |              |           |
| General Trade Knowledge & Theory                      | 10                 |           |                         | 6             |           |                         | 6            |           |
| <b>Total Questions</b>                                | <b>60</b>          | <b>20</b> | <b>10</b>               | <b>44</b>     | <b>17</b> | <b>10</b>               | <b>40</b>    | <b>17</b> |

Note: The number of questions in any individual knowledge area is approximate.

| 03-Pump & Irrigation   |                    |           |  |               |           |              |           |
|--|--------------------|-----------|--|---------------|-----------|--------------|-----------|
| Type of Certificate  | Master Electrician |           |  | Administrator |           | Electrician  |           |
| Examination Section  | NEC & Theory       | WA Codes  |  | NEC & Theory  | WA Codes  | NEC & Theory | WA Codes  |
|  |                    |           |  |               |           |              |           |
| Time Allowed per Section (hours)   | 3                  | 1         |  | 2             | 1         | 2            | 1         |
| <b>Knowledge Area</b>  |                    |           |  |               |           |              |           |
| NEC 90 - Introduction  | 1                  |           |  | 1             |           | 1            |           |
| NEC 100-110 - General Requirements   | 2                  |           |  | 1             |           | 1            |           |
| NEC 200-225, 280-285 - Wiring & Protection                                     | 3                  |           |  | 3             |           | 3            |           |
| NEC 230 - Services   | 4                  |           |  | 2             |           | 2            |           |
| NEC 240 - Overcurrent Protection   | 4                  |           |  | 3             |           | 3            |           |
| NEC 250 - Grounding & Bonding  | 5                  |           |  | 4             |           | 4            |           |
| NEC 300-398 - Wiring Methods   | 7                  |           |  | 7             |           | 5            |           |
| NEC 400-427, 455-480 - Electrical Equipment                                    | 2                  |           |  | 2             |           | 2            |           |
| NEC 430-450 - Motors, HVAC, Generators & Transformers                          | 6                  |           |  | 5             |           | 4            |           |
| NEC 490 - Equipment > 600 volts  | 2                  |           |  | 1             |           | 1            |           |
| NEC 500-516 - Hazardous Locations  | 1                  |           |  | 1             |           | 1            |           |
| NEC 517-590 - Special Occupancies  |                    |           |  |               |           |              |           |
| NEC 600-695 - Special Equipment  | 1                  |           |  | 1             |           | 1            |           |
| NEC 700-702 - Emergency & Standby Systems                                      |                    |           |  |               |           |              |           |
| NEC 705-780 - Special Conditions   | 2                  |           |  | 2             |           | 2            |           |
| NEC 800-830 - Communication Systems  |                    |           |  |               |           |              |           |
| Washington Laws & Rules (RCW & WAC)  |                    | 20        |  |               | 17        |              | 17        |
| Major Load Calculations  |                    |           |  |               |           |              |           |
| General Trade Knowledge & Theory   | 10                 |           |  | 7             |           | 4            |           |
| <b>Total Questions</b>   | <b>50</b>          | <b>20</b> |  | <b>40</b>     | <b>17</b> | <b>34</b>    | <b>17</b> |
| Note: The number of questions in any individual knowledge area is approximate. |                    |           |  |               |           |              |           |

| 03A-Domestic Pump  |                    |           |  |                |           |  |              |           |
|--|--------------------|-----------|--|----------------|-----------|--|--------------|-----------|
| Type of Certificate  | Master Electrician |           |  | Administrative |           |  | Electrician  |           |
| Examination Section  | NEC & Theory       | WA Codes  |  | NEC & Theory   | WA Codes  |  | NEC & Theory | WA Codes  |
| <b>Time Allowed per Section (hours)</b>  | <b>3</b>           | <b>1</b>  |  | <b>2</b>       | <b>1</b>  |  | <b>1</b>     | <b>1</b>  |
| <b>Knowledge Area</b>  |                    |           |  |                |           |  |              |           |
| NEC 90 - Introduction  | 1                  |           |  | 1              |           |  |              |           |
| NEC 100-110 - General Requirements   | 1                  |           |  | 1              |           |  | 1            |           |
| NEC 200-225, 280-285 - Wiring & Protection                                     | 2                  |           |  | 2              |           |  | 2            |           |
| NEC 230 - Services   |                    |           |  |                |           |  |              |           |
| NEC 240 - Overcurrent Protection   | 4                  |           |  | 3              |           |  | 2            |           |
| NEC 250 - Grounding & Bonding  | 4                  |           |  | 3              |           |  | 2            |           |
| NEC 300-398 - Wiring Methods   | 6                  |           |  | 6              |           |  | 3            |           |
| NEC 400-427, 455-480 - Electrical Equipment                                    | 2                  |           |  | 1              |           |  | 1            |           |
| NEC 430-450 - Motors, HVAC, Generators & Transformers                          | 5                  |           |  | 5              |           |  | 3            |           |
| NEC 490 - Equipment > 600 volts  |                    |           |  |                |           |  |              |           |
| NEC 500-516 - Hazardous Locations  | 1                  |           |  | 1              |           |  | 1            |           |
| NEC 517-590 - Special Occupancies  |                    |           |  |                |           |  |              |           |
| NEC 600-695 - Special Equipment  |                    |           |  |                |           |  |              |           |
| NEC 700-702 - Emergency & Standby Systems                                      |                    |           |  |                |           |  |              |           |
| NEC 705-780 - Special Conditions   | 1                  |           |  | 1              |           |  | 1            |           |
| NEC 800-830 - Communication Systems  |                    |           |  |                |           |  |              |           |
| Washington Laws & Rules (RCW & WAC)  |                    | 20        |  |                | 17        |  |              | 17        |
| Major Load Calculations  |                    |           |  |                |           |  |              |           |
| General Trade Knowledge & Theory   | 7                  |           |  | 6              |           |  | 4            |           |
| <b>Total Questions</b>   | <b>34</b>          | <b>20</b> |  | <b>30</b>      | <b>17</b> |  | <b>20</b>    | <b>17</b> |
| Note: The number of questions in any individual knowledge area is approximate. |                    |           |  |                |           |  |              |           |

| 04-Signs   |                     |              |          |               |           |              |             |           |
|--|---------------------|--------------|----------|---------------|-----------|--------------|-------------|-----------|
| Type of Certificate  | Master Electrician  |              |          | Administrator |           |              | Electrician |           |
|  | Examination Section | NEC & Theory | WA Codes | NEC & Theory  | WA Codes  | NEC & Theory | WA Codes    |           |
| Time Allowed per Section (hours)   | 3                   | 1            |          | 3             | 1         |              | 2           | 1         |
| <b>Knowledge Area</b>  |                     |              |          |               |           |              |             |           |
| NEC 90 - Introduction  | 1                   |              |          | 1             |           |              | 1           |           |
| NEC 100-110 - General Requirements   | 2                   |              |          | 1             |           |              | 1           |           |
| NEC 200-225, 280-285 - Wiring & Protection                                     | 1                   |              |          | 1             |           |              | 1           |           |
| NEC 230 - Services   | 3                   |              |          | 3             |           |              | 3           |           |
| NEC 240 - Overcurrent Protection   | 4                   |              |          | 4             |           |              | 3           |           |
| NEC 250 - Grounding & Bonding  | 4                   |              |          | 4             |           |              | 4           |           |
| NEC 300-398 - Wiring Methods   | 10                  |              |          | 8             |           |              | 5           |           |
| NEC 400-427, 455-480 - Electrical Equipment                                    | 2                   |              |          | 2             |           |              | 2           |           |
| NEC 430-450 - Motors, HVAC, Generators & Transformers                          | 2                   |              |          | 2             |           |              | 2           |           |
| NEC 490 - Equipment > 600 volts  |                     |              |          |               |           |              |             |           |
| NEC 500-516 - Hazardous Locations  |                     |              |          |               |           |              |             |           |
| NEC 517-590 - Special Occupancies  |                     |              |          |               |           |              |             |           |
| NEC 600-695 - Special Equipment  | 6                   |              |          | 4             |           |              | 4           |           |
| NEC 700-702 - Emergency & Standby Systems                                      |                     |              |          |               |           |              |             |           |
| NEC 705-780 - Special Conditions   |                     |              |          |               |           |              |             |           |
| NEC 800-830 - Communication Systems  |                     |              |          |               |           |              |             |           |
| Washington Laws & Rules (RCW & WAC)  |                     | 20           |          |               | 17        |              |             | 17        |
| Major Load Calculations  |                     |              |          |               |           |              |             |           |
| General Trade Knowledge & Theory   | 5                   |              |          | 4             |           |              | 4           |           |
| <b>Total Questions</b>   | <b>40</b>           | <b>20</b>    |          | <b>34</b>     | <b>17</b> |              | <b>30</b>   | <b>17</b> |
| Note: The number of questions in any individual knowledge area is approximate. |                     |              |          |               |           |              |             |           |

| <b>06-Limited Energy</b>                              |                    |           |  |               |           |  |              |           |
|---|--------------------|-----------|--|---------------|-----------|--|--------------|-----------|
| Type of Certificate                                   | Master Electrician |           |  | Administrator |           |  | Electrician  |           |
| Examination Section                                   | NEC & Theory       | WA Codes  |  | NEC & Theory  | WA Codes  |  | NEC & Theory | WA Codes  |
| <b>Time Allowed per Section (hours)</b>               | <b>2</b>           | <b>1</b>  |  | <b>2</b>      | <b>1</b>  |  | <b>2</b>     | <b>1</b>  |
| <b>Knowledge Area</b>                                 |                    |           |  |               |           |  |              |           |
| NEC 90 - Introduction                                 | 2                  |           |  | 1             |           |  | 1            |           |
| NEC 100-110 - General Requirements                    | 3                  |           |  | 2             |           |  | 2            |           |
| NEC 200-225, 280-285 - Wiring & Protection            | 1                  |           |  | 1             |           |  | 1            |           |
| NEC 230 - Services                                    |                    |           |  |               |           |  |              |           |
| NEC 240 - Overcurrent Protection                      | 3                  |           |  | 3             |           |  | 3            |           |
| NEC 250 - Grounding & Bonding                         | 3                  |           |  | 3             |           |  | 3            |           |
| NEC 300-398 - Wiring Methods                          | 8                  |           |  | 8             |           |  | 5            |           |
| NEC 400-427, 455-480 - Electrical Equipment           | 3                  |           |  | 3             |           |  | 3            |           |
| NEC 430-450 - Motors, HVAC, Generators & Transformers | 2                  |           |  | 2             |           |  | 1            |           |
| NEC 490 - Equipment > 600 volts                       |                    |           |  |               |           |  |              |           |
| NEC 500-516 - Hazardous Locations                     | 3                  |           |  | 3             |           |  | 2            |           |
| NEC 517-590 - Special Occupancies                     |                    |           |  |               |           |  |              |           |
| NEC 600-695 - Special Equipment                       | 3                  |           |  | 3             |           |  | 1            |           |
| NEC 700-702 - Emergency & Standby Systems             |                    |           |  |               |           |  |              |           |
| NEC 705-780 - Special Conditions                      | 6                  |           |  | 6             |           |  | 6            |           |
| NEC 800-830 - Communication Systems                   | 3                  |           |  | 3             |           |  | 3            |           |
| Washington Laws & Rules (RCW & WAC)                   |                    | 20        |  |               | 17        |  |              | 17        |
| Major Load Calculations                               |                    |           |  |               |           |  |              |           |
| General Trade Knowledge & Theory                      | 10                 |           |  | 6             |           |  | 3            |           |
| <b>Total Questions</b>                                | <b>50</b>          | <b>20</b> |  | <b>44</b>     | <b>17</b> |  | <b>34</b>    | <b>17</b> |

Note: The number of questions in any individual knowledge area is approximate.

| 06A-HVAC/R  |                    |           |  |               |           |              |           |
|---|--------------------|-----------|--|---------------|-----------|--------------|-----------|
| Type of Certificate                                   | Master Electrician |           |  | Administrator |           | Electrician  |           |
| Examination Section                                   | NEC & Theory       | WA Codes  |  | NEC & Theory  | WA Codes  | NEC & Theory | WA Codes  |
| <b>Time Allowed per Section (hours)</b>               | <b>3</b>           | <b>1</b>  |  | <b>2</b>      | <b>1</b>  | <b>2</b>     | <b>1</b>  |
| <b>Knowledge Area</b>                                 |                    |           |  |               |           |              |           |
| NEC 90 - Introduction                                 | 2                  |           |  | 1             |           | 1            |           |
| NEC 100-110 - General Requirements                    | 3                  |           |  | 2             |           | 2            |           |
| NEC 200-225, 280-285 - Wiring & Protection            | 2                  |           |  | 2             |           | 2            |           |
| NEC 230 - Services                                    |                    |           |  |               |           |              |           |
| NEC 240 - Overcurrent Protection                      | 5                  |           |  | 4             |           | 4            |           |
| NEC 250 - Grounding & Bonding                         | 5                  |           |  | 4             |           | 4            |           |
| NEC 300-398 - Wiring Methods                          | 6                  |           |  | 5             |           | 4            |           |
| NEC 400-427, 455-480 - Electrical Equipment           | 4                  |           |  | 4             |           | 4            |           |
| NEC 430-450 - Motors, HVAC, Generators & Transformers | 8                  |           |  | 7             |           | 4            |           |
| NEC 490 - Equipment > 600 volts                       | 1                  |           |  | 1             |           | 1            |           |
| NEC 500-516 - Hazardous Locations                     | 1                  |           |  | 1             |           | 1            |           |
| NEC 517-590 - Special Occupancies                     |                    |           |  |               |           |              |           |
| NEC 600-695 - Special Equipment                       | 1                  |           |  | 1             |           | 1            |           |
| NEC 700-702 - Emergency & Standby Systems             |                    |           |  |               |           |              |           |
| NEC 705-780 - Special Conditions                      | 2                  |           |  | 2             |           | 2            |           |
| NEC 800-830 - Communication Systems                   |                    |           |  |               |           |              |           |
| Washington Laws & Rules (RCW & WAC)                   |                    | 20        |  |               | 17        |              | 17        |
| Major Load Calculations                               |                    |           |  |               |           |              |           |
| General Trade Knowledge & Theory                      | 10                 |           |  | 6             |           | 4            |           |
| <b>Total Questions</b>                                | <b>50</b>          | <b>20</b> |  | <b>40</b>     | <b>17</b> | <b>34</b>    | <b>17</b> |

Note: The number of questions in any individual knowledge area is approximate.

| <b>06B-HVAC/R Restricted</b>                          |                    |           |  |               |           |  |              |           |
|---|--------------------|-----------|--|---------------|-----------|--|--------------|-----------|
| Type of Certificate                                   | Master Electrician |           |  | Administrator |           |  | Electrician  |           |
| Examination Section                                   | NEC & Theory       | WA Codes  |  | NEC & Theory  | WA Codes  |  | NEC & Theory | WA Codes  |
| <b>Time Allowed per Section (hours)</b>               | <b>2</b>           | <b>1</b>  |  | <b>2</b>      | <b>1</b>  |  | <b>1</b>     | <b>1</b>  |
| <b>Knowledge Area</b>                                 |                    |           |  |               |           |  |              |           |
| NEC 90 - Introduction                                 | 1                  |           |  | 1             |           |  | 1            |           |
| NEC 100-110 - General Requirements                    | 3                  |           |  | 3             |           |  | 1            |           |
| NEC 200-225, 280-285 - Wiring & Protection            |                    |           |  |               |           |  |              |           |
| NEC 230 - Services                                    |                    |           |  |               |           |  |              |           |
| NEC 240 - Overcurrent Protection                      | 4                  |           |  | 4             |           |  | 2            |           |
| NEC 250 - Grounding & Bonding                         | 4                  |           |  | 4             |           |  | 2            |           |
| NEC 300-398 - Wiring Methods                          | 5                  |           |  | 4             |           |  | 3            |           |
| NEC 400-427, 455-480 - Electrical Equipment           | 2                  |           |  | 2             |           |  | 1            |           |
| NEC 430-450 - Motors, HVAC, Generators & Transformers | 5                  |           |  | 4             |           |  | 3            |           |
| NEC 490 - Equipment > 600 volts                       |                    |           |  |               |           |  |              |           |
| NEC 500-516 - Hazardous Locations                     | 1                  |           |  | 1             |           |  | 1            |           |
| NEC 517-590 - Special Occupancies                     |                    |           |  |               |           |  |              |           |
| NEC 600-695 - Special Equipment                       |                    |           |  |               |           |  |              |           |
| NEC 700-702 - Emergency & Standby Systems             |                    |           |  |               |           |  |              |           |
| NEC 705-780 - Special Conditions                      | 3                  |           |  | 2             |           |  | 2            |           |
| NEC 800-830 - Communication Systems                   |                    |           |  |               |           |  |              |           |
| Washington Laws & Rules (RCW & WAC)                   |                    | 20        |  |               | 17        |  |              | 17        |
| Major Load Calculations                               |                    |           |  |               |           |  |              |           |
| General Trade Knowledge & Theory                      | 6                  |           |  | 5             |           |  | 4            |           |
| <b>Total Questions</b>                                | <b>34</b>          | <b>20</b> |  | <b>30</b>     | <b>17</b> |  | <b>20</b>    | <b>17</b> |

Note: The number of questions in any individual knowledge area is approximate.

| 07-Nonresidential Maintenance  |                     |              |          |               |           |              |             |           |
|--|---------------------|--------------|----------|---------------|-----------|--------------|-------------|-----------|
| Type of Certificate  | Master Electrician  |              |          | Administrator |           |              | Electrician |           |
|  | Examination Section | NEC & Theory | WA Codes | NEC & Theory  | WA Codes  | NEC & Theory | WA Codes    |           |
| Time Allowed per Section (hours)   | 3                   | 1            |          | 3             | 1         |              | 2           | 1         |
| <b>Knowledge Area</b>  |                     |              |          |               |           |              |             |           |
| NEC 90 - Introduction  | 1                   |              |          | 1             |           |              | 1           |           |
| NEC 100-110 - General Requirements   | 3                   |              |          | 2             |           |              | 2           |           |
| NEC 200-225, 280-285 - Wiring & Protection                                     | 2                   |              |          | 1             |           |              | 2           |           |
| NEC 230 - Services   | 2                   |              |          | 2             |           |              | 3           |           |
| NEC 240 - Overcurrent Protection   | 4                   |              |          | 4             |           |              | 3           |           |
| NEC 250 - Grounding & Bonding  | 4                   |              |          | 4             |           |              | 4           |           |
| NEC 300-398 - Wiring Methods   | 8                   |              |          | 6             |           |              | 5           |           |
| NEC 400-427, 455-480 - Electrical Equipment                                    | 4                   |              |          | 4             |           |              | 2           |           |
| NEC 430-450 - Motors, HVAC, Generators & Transformers                          | 4                   |              |          | 4             |           |              | 2           |           |
| NEC 490 - Equipment > 600 volts  | 2                   |              |          | 2             |           |              | 2           |           |
| NEC 500-516 - Hazardous Locations  | 3                   |              |          | 3             |           |              | 1           |           |
| NEC 517-590 - Special Occupancies  | 2                   |              |          | 2             |           |              | 1           |           |
| NEC 600-695 - Special Equipment  | 3                   |              |          | 3             |           |              | 3           |           |
| NEC 700-702 - Emergency & Standby Systems                                      | 3                   |              |          | 3             |           |              | 1           |           |
| NEC 705-780 - Special Conditions   | 2                   |              |          | 2             |           |              | 2           |           |
| NEC 800-830 - Communication Systems  | 1                   |              |          | 1             |           |              | 1           |           |
| Washington Laws & Rules (RCW & WAC)  |                     | 20           |          |               | 17        |              |             | 17        |
| Major Load Calculations  |                     |              |          |               |           |              |             |           |
| General Trade Knowledge & Theory   | 6                   |              |          | 6             |           |              | 5           |           |
| <b>Total Questions</b>   | <b>54</b>           | <b>20</b>    |          | <b>50</b>     | <b>17</b> |              | <b>40</b>   | <b>17</b> |
| Note: The number of questions in any individual knowledge area is approximate. |                     |              |          |               |           |              |             |           |



| <b>07A-Nonresidential Lighting Maintenance &amp; Lighting Retrofit</b>         |                     |              |          |               |           |              |             |           |
|--|---------------------|--------------|----------|---------------|-----------|--------------|-------------|-----------|
| Type of Certificate  | Master Electrician  |              |          | Administrator |           |              | Electrician |           |
|  | Examination Section | NEC & Theory | WA Codes | NEC & Theory  | WA Codes  | NEC & Theory | WA Codes    |           |
| <b>Time Allowed per Section (hours)</b>  | <b>1</b>            | <b>1</b>     |          | <b>1</b>      | <b>1</b>  |              | <b>1</b>    | <b>1</b>  |
| <b>Knowledge Area</b>  |                     |              |          |               |           |              |             |           |
| NEC 90 - Introduction  | 2                   |              |          | 1             |           |              | 1           |           |
| NEC 100-110 - General Requirements   | 2                   |              |          | 1             |           |              | 1           |           |
| NEC 200-225, 280-285 - Wiring & Protection                                     |                     |              |          |               |           |              |             |           |
| NEC 230 - Services   |                     |              |          |               |           |              |             |           |
| NEC 240 - Overcurrent Protection   | 2                   |              |          | 2             |           |              | 2           |           |
| NEC 250 - Grounding & Bonding  | 3                   |              |          | 3             |           |              | 3           |           |
| NEC 300-398 - Wiring Methods   |                     |              |          |               |           |              |             |           |
| NEC 400-427, 455-480 - Electrical Equipment                                    | 5                   |              |          | 6             |           |              | 6           |           |
| NEC 430-450 - Motors, HVAC, Generators & Transformers                          |                     |              |          |               |           |              |             |           |
| NEC 490 - Equipment > 600 volts  |                     |              |          |               |           |              |             |           |
| NEC 500-516 - Hazardous Locations  | 1                   |              |          | 1             |           |              | 1           |           |
| NEC 517-590 - Special Occupancies  |                     |              |          |               |           |              |             |           |
| NEC 600-695 - Special Equipment  |                     |              |          |               |           |              |             |           |
| NEC 700-702 - Emergency & Standby Systems                                      |                     |              |          |               |           |              |             |           |
| NEC 705-780 - Special Conditions   |                     |              |          |               |           |              |             |           |
| NEC 800-830 - Communication Systems  |                     |              |          |               |           |              |             |           |
| Washington Laws & Rules (RCW & WAC)  |                     | 20           |          |               | 17        |              |             | 17        |
| Major Load Calculations  |                     |              |          |               |           |              |             |           |
| General Trade Knowledge & Theory   | 5                   |              |          | 3             |           |              | 3           |           |
| <b>Total Questions</b>   | <b>20</b>           | <b>20</b>    |          | <b>17</b>     | <b>17</b> |              | <b>17</b>   | <b>17</b> |
| Note: The number of questions in any individual knowledge area is approximate. |                     |              |          |               |           |              |             |           |

| 07B-Residential Maintenance                           |                    |           |  |               |           |  |              |           |
|---|--------------------|-----------|--|---------------|-----------|--|--------------|-----------|
| Type of Certificate                                   | Master Electrician |           |  | Administrator |           |  | Electrician  |           |
| Examination Section                                   | NEC & Theory       | WA Codes  |  | NEC & Theory  | WA Codes  |  | NEC & Theory | WA Codes  |
| <b>Time Allowed per Section (hours)</b>               | <b>2</b>           | <b>1</b>  |  | <b>2</b>      | <b>1</b>  |  | <b>1</b>     | <b>1</b>  |
| <b>Knowledge Area</b>                                 |                    |           |  |               |           |  |              |           |
| NEC 90 - Introduction                                 | 2                  |           |  | 1             |           |  | 1            |           |
| NEC 100-110 - General Requirements                    | 3                  |           |  | 2             |           |  | 1            |           |
| NEC 200-225, 280-285 - Wiring & Protection            | 2                  |           |  | 2             |           |  | 2            |           |
| NEC 230 - Services                                    |                    |           |  |               |           |  |              |           |
| NEC 240 - Overcurrent Protection                      | 3                  |           |  | 3             |           |  | 2            |           |
| NEC 250 - Grounding & Bonding                         | 4                  |           |  | 3             |           |  | 2            |           |
| NEC 300-398 - Wiring Methods                          | 3                  |           |  | 3             |           |  | 2            |           |
| NEC 400-427, 455-480 - Electrical Equipment           | 3                  |           |  | 3             |           |  | 2            |           |
| NEC 430-450 - Motors, HVAC, Generators & Transformers | 3                  |           |  | 3             |           |  | 1            |           |
| NEC 490 - Equipment > 600 volts                       |                    |           |  |               |           |  |              |           |
| NEC 500-516 - Hazardous Locations                     |                    |           |  |               |           |  |              |           |
| NEC 517-590 - Special Occupancies                     |                    |           |  |               |           |  |              |           |
| NEC 600-695 - Special Equipment                       | 3                  |           |  | 2             |           |  | 2            |           |
| NEC 700-702 - Emergency & Standby Systems             | 2                  |           |  | 2             |           |  | 2            |           |
| NEC 705-780 - Special Conditions                      | 1                  |           |  | 1             |           |  | 0            |           |
| NEC 800-830 - Communication Systems                   |                    |           |  |               |           |  |              |           |
| Washington Laws & Rules (RCW & WAC)                   |                    | 20        |  |               | 17        |  |              | 17        |
| Major Load Calculations                               |                    |           |  |               |           |  |              |           |
| General Trade Knowledge & Theory                      | 5                  |           |  | 5             |           |  | 3            |           |
| <b>Total Questions</b>                                | <b>34</b>          | <b>20</b> |  | <b>30</b>     | <b>17</b> |  | <b>20</b>    | <b>17</b> |

Note: The number of questions in any individual knowledge area is approximate.

| 07C-Nonresidential Maintenance - restricted                                    |                     |              |          |               |              |           |             |              |           |
|--|---------------------|--------------|----------|---------------|--------------|-----------|-------------|--------------|-----------|
| Type of Certificate  | Master Electrician  |              |          | Administrator |              |           | Electrician |              |           |
|  | Examination Section | NEC & Theory | WA Codes |               | NEC & Theory | WA Codes  |             | NEC & Theory | WA Codes  |
| <b>Time Allowed per Section (hours)</b>  | <b>2</b>            | <b>1</b>     |          |               | <b>2</b>     | <b>1</b>  |             | <b>2</b>     | <b>1</b>  |
| <b>Knowledge Area</b>  |                     |              |          |               |              |           |             |              |           |
| NEC 90 - Introduction  | 2                   |              |          |               | 1            |           |             | 1            |           |
| NEC 100-110 - General Requirements   | 2                   |              |          |               | 2            |           |             | 2            |           |
| NEC 200-225, 280-285 - Wiring & Protection                                     | 1                   |              |          |               | 1            |           |             | 2            |           |
| NEC 230 - Services   |                     |              |          |               |              |           |             |              |           |
| NEC 240 - Overcurrent Protection   | 4                   |              |          |               | 3            |           |             | 3            |           |
| NEC 250 - Grounding & Bonding  | 4                   |              |          |               | 3            |           |             | 2            |           |
| NEC 300-398 - Wiring Methods   | 3                   |              |          |               | 2            |           |             | 2            |           |
| NEC 400-427, 455-480 - Electrical Equipment                                    | 3                   |              |          |               | 2            |           |             | 2            |           |
| NEC 430-450 - Motors, HVAC, Generators & Transformers                          | 4                   |              |          |               | 3            |           |             | 1            |           |
| NEC 490 - Equipment > 600 volts  |                     |              |          |               |              |           |             |              |           |
| NEC 500-516 - Hazardous Locations  | 1                   |              |          |               | 1            |           |             | 1            |           |
| NEC 517-590 - Special Occupancies  | 3                   |              |          |               | 3            |           |             | 1            |           |
| NEC 600-695 - Special Equipment  | 2                   |              |          |               | 1            |           |             | 2            |           |
| NEC 700-702 - Emergency & Standby Systems                                      | 1                   |              |          |               | 1            |           |             | 2            |           |
| NEC 705-780 - Special Conditions   | 2                   |              |          |               | 1            |           |             | 0            |           |
| NEC 800-830 - Communication Systems  | 1                   |              |          |               | 1            |           |             |              |           |
| Washington Laws & Rules (RCW & WAC)  |                     | 20           |          |               |              | 17        |             |              | 17        |
| Major Load Calculations  |                     |              |          |               |              |           |             |              |           |
| General Trade Knowledge & Theory   | 7                   |              |          |               | 5            |           |             | 3            |           |
| <b>Total Questions</b>   | <b>40</b>           | <b>20</b>    |          |               | <b>30</b>    | <b>17</b> |             | <b>24</b>    | <b>17</b> |
| Note: The number of questions in any individual knowledge area is approximate. |                     |              |          |               |              |           |             |              |           |

| 07D-Appliance Repair   |                    |           |  |               |           |  |              |           |
|--|--------------------|-----------|--|---------------|-----------|--|--------------|-----------|
| Type of Certificate  | Master Electrician |           |  | Administrator |           |  | Electrician  |           |
| Examination Section  | NEC & Theory       | WA Codes  |  | NEC & Theory  | WA Codes  |  | NEC & Theory | WA Codes  |
| <b>Time Allowed per Section (hours)</b>  | <b>2</b>           | <b>1</b>  |  | <b>2</b>      | <b>1</b>  |  | <b>1</b>     | <b>1</b>  |
| <b>Knowledge Area</b>  |                    |           |  |               |           |  |              |           |
| NEC 90 - Introduction  | 2                  |           |  | 1             |           |  | 1            |           |
| NEC 100-110 - General Requirements   | 3                  |           |  | 2             |           |  | 2            |           |
| NEC 200-225, 280-285 - Wiring & Protection                                     |                    |           |  |               |           |  |              |           |
| NEC 230 - Services   |                    |           |  |               |           |  |              |           |
| NEC 240 - Overcurrent Protection   | 3                  |           |  | 3             |           |  | 2            |           |
| NEC 250 - Grounding & Bonding  | 3                  |           |  | 3             |           |  | 2            |           |
| NEC 300-398 - Wiring Methods   | 2                  |           |  | 2             |           |  | 2            |           |
| NEC 400-427, 455-480 - Electrical Equipment                                    | 6                  |           |  | 5             |           |  | 4            |           |
| NEC 430-450 - Motors, HVAC, Generators & Transformers                          | 2                  |           |  | 2             |           |  | 2            |           |
| NEC 490 - Equipment > 600 volts  |                    |           |  |               |           |  |              |           |
| NEC 500-516 - Hazardous Locations  |                    |           |  |               |           |  |              |           |
| NEC 517-590 - Special Occupancies  |                    |           |  |               |           |  |              |           |
| NEC 600-695 - Special Equipment  |                    |           |  |               |           |  |              |           |
| NEC 700-702 - Emergency & Standby Systems                                      |                    |           |  |               |           |  |              |           |
| NEC 705-780 - Special Conditions   | 2                  |           |  | 2             |           |  | 1            |           |
| NEC 800-830 - Communication Systems  |                    |           |  |               |           |  |              |           |
| Washington Laws & Rules (RCW & WAC)  |                    | 20        |  |               | 17        |  |              | 17        |
| Major Load Calculations  |                    |           |  |               |           |  |              |           |
| General Trade Knowledge & Theory   | 7                  |           |  | 4             |           |  | 4            |           |
| <b>Total Questions</b>   | <b>30</b>          | <b>20</b> |  | <b>24</b>     | <b>17</b> |  | <b>20</b>    | <b>17</b> |
| Note: The number of questions in any individual knowledge area is approximate. |                    |           |  |               |           |  |              |           |

| 07E-Equipment Repair                                  |                    |           |  |               |           |  |              |           |
|---|--------------------|-----------|--|---------------|-----------|--|--------------|-----------|
| Type of Certificate                                   | Master Electrician |           |  | Administrator |           |  | Electrician  |           |
| Examination Section                                   | NEC & Theory       | WA Codes  |  | NEC & Theory  | WA Codes  |  | NEC & Theory | WA Codes  |
| <b>Time Allowed per Section (hours)</b>               | <b>2</b>           | <b>1</b>  |  | <b>2</b>      | <b>1</b>  |  | <b>1</b>     | <b>1</b>  |
| <b>Knowledge Area</b>                                 |                    |           |  |               |           |  |              |           |
| NEC 90 - Introduction                                 | 1                  |           |  | 1             |           |  | 1            |           |
| NEC 100-110 - General Requirements                    | 2                  |           |  | 1             |           |  | 1            |           |
| NEC 200-225, 280-285 - Wiring & Protection            | 1                  |           |  | 1             |           |  | 1            |           |
| NEC 230 - Services                                    |                    |           |  |               |           |  |              |           |
| NEC 240 - Overcurrent Protection                      | 4                  |           |  | 4             |           |  | 4            |           |
| NEC 250 - Grounding & Bonding                         | 4                  |           |  | 4             |           |  | 4            |           |
| NEC 300-398 - Wiring Methods                          | 6                  |           |  | 5             |           |  | 5            |           |
| NEC 400-427, 455-480 - Electrical Equipment           | 2                  |           |  | 2             |           |  | 2            |           |
| NEC 430-450 - Motors, HVAC, Generators & Transformers | 4                  |           |  | 4             |           |  | 4            |           |
| NEC 490 - Equipment > 600 volts                       |                    |           |  |               |           |  |              |           |
| NEC 500-516 - Hazardous Locations                     | 1                  |           |  | 1             |           |  | 1            |           |
| NEC 517-590 - Special Occupancies                     | 1                  |           |  | 1             |           |  | 1            |           |
| NEC 600-695 - Special Equipment                       |                    |           |  |               |           |  |              |           |
| NEC 700-702 - Emergency & Standby Systems             |                    |           |  |               |           |  |              |           |
| NEC 705-780 - Special Conditions                      | 2                  |           |  | 1             |           |  | 1            |           |
| NEC 800-830 - Communication Systems                   |                    |           |  |               |           |  |              |           |
| Washington Laws & Rules (RCW & WAC)                   |                    | 20        |  |               | 17        |  |              | 17        |
| Major Load Calculations                               |                    |           |  |               |           |  |              |           |
| General Trade Knowledge & Theory                      | 6                  |           |  | 5             |           |  | 5            |           |
| <b>Total Questions</b>                                | <b>34</b>          | <b>20</b> |  | <b>30</b>     | <b>17</b> |  | <b>30</b>    | <b>17</b> |

Note: The number of questions in any individual knowledge area is approximate.

| 10-Door, Gate & Similar Systems                       |                    |           |  |               |           |  |              |           |
|---|--------------------|-----------|--|---------------|-----------|--|--------------|-----------|
| Type of Certificate                                   | Master Electrician |           |  | Administrator |           |  | Electrician  |           |
| Examination Section                                   | NEC & Theory       | WA Codes  |  | NEC & Theory  | WA Codes  |  | NEC & Theory | WA Codes  |
| <b>Time Allowed per Section (hours)</b>               | <b>2</b>           | <b>1</b>  |  | <b>2</b>      | <b>1</b>  |  | <b>2</b>     | <b>1</b>  |
| <b>Knowledge Area</b>                                 |                    |           |  |               |           |  |              |           |
| NEC 90 - Introduction                                 | 1                  |           |  | 1             |           |  | 1            |           |
| NEC 100-110 - General Requirements                    | 2                  |           |  | 1             |           |  | 1            |           |
| NEC 200-225, 280-285 - Wiring & Protection            | 1                  |           |  | 1             |           |  | 1            |           |
| NEC 230 - Services                                    |                    |           |  |               |           |  |              |           |
| NEC 240 - Overcurrent Protection                      | 4                  |           |  | 4             |           |  | 4            |           |
| NEC 250 - Grounding & Bonding                         | 4                  |           |  | 4             |           |  | 4            |           |
| NEC 300-398 - Wiring Methods                          | 6                  |           |  | 5             |           |  | 5            |           |
| NEC 400-427, 455-480 - Electrical Equipment           | 2                  |           |  | 2             |           |  | 2            |           |
| NEC 430-450 - Motors, HVAC, Generators & Transformers | 4                  |           |  | 4             |           |  | 4            |           |
| NEC 490 - Equipment > 600 volts                       |                    |           |  |               |           |  |              |           |
| NEC 500-516 - Hazardous Locations                     | 1                  |           |  | 1             |           |  | 1            |           |
| NEC 517-590 - Special Occupancies                     | 1                  |           |  | 1             |           |  | 1            |           |
| NEC 600-695 - Special Equipment                       |                    |           |  |               |           |  |              |           |
| NEC 700-702 - Emergency & Standby Systems             |                    |           |  |               |           |  |              |           |
| NEC 705-780 - Special Conditions                      | 2                  |           |  | 1             |           |  | 1            |           |
| NEC 800-830 - Communication Systems                   |                    |           |  |               |           |  |              |           |
| Washington Laws & Rules (RCW & WAC)                   |                    | 20        |  |               | 17        |  |              | 17        |
| Major Load Calculations                               |                    |           |  |               |           |  |              |           |
| General Trade Knowledge & Theory                      | 6                  |           |  | 5             |           |  | 5            |           |
| <b>Total Questions</b>                                | <b>34</b>          | <b>20</b> |  | <b>30</b>     | <b>17</b> |  | <b>30</b>    | <b>17</b> |

Note: The number of questions in any individual knowledge area is approximate.

| 09-Telecommunications                                 |  |  |  |               |           |  |  |
|---|--|--|--|---------------|-----------|--|--|
| Type of Certificate                                   |  |  |  | Administrator |           |  |  |
| Examination Section                                   |  |  |  | NEC & Theory  | WA Codes  |  |  |
|   |  |  |  |               |           |  |  |
| <b>Time Allowed per Section (hours)</b>               |  |  |  | <b>2</b>      | <b>1</b>  |  |  |
| <b>Knowledge Area</b>                                 |  |  |  |               |           |  |  |
| NEC 90 - Introduction                                 |  |  |  | 2             |           |  |  |
| NEC 100-110 - General Requirements                    |  |  |  | 3             |           |  |  |
| NEC 200-225, 280-285 - Wiring & Protection            |  |  |  |               |           |  |  |
| NEC 230 - Services                                    |  |  |  |               |           |  |  |
| NEC 240 - Overcurrent Protection                      |  |  |  |               |           |  |  |
| NEC 250 - Grounding & Bonding                         |  |  |  | 3             |           |  |  |
| NEC 300-398 - Wiring Methods                          |  |  |  | 3             |           |  |  |
| NEC 400-427, 455-480 - Electrical Equipment           |  |  |  |               |           |  |  |
| NEC 430-450 - Motors, HVAC, Generators & Transformers |  |  |  |               |           |  |  |
| NEC 490 - Equipment > 600 volts                       |  |  |  |               |           |  |  |
| NEC 500-516 - Hazardous Locations                     |  |  |  | 1             |           |  |  |
| NEC 517-590 - Special Occupancies                     |  |  |  |               |           |  |  |
| NEC 600-695 - Special Equipment                       |  |  |  |               |           |  |  |
| NEC 700-702 - Emergency & Standby Systems             |  |  |  |               |           |  |  |
| NEC 705-780 - Special Conditions                      |  |  |  | 4             |           |  |  |
| NEC 800-830 - Communication Systems                   |  |  |  | 8             |           |  |  |
| Washington Laws & Rules (RCW & WAC)                   |  |  |  |               | 17        |  |  |
| Major Load Calculations                               |  |  |  |               |           |  |  |
| General Trade Knowledge & Theory                      |  |  |  | 6             |           |  |  |
| <b>Total Questions</b>                                |  |  |  | <b>30</b>     | <b>17</b> |  |  |

Note: The number of questions in any individual knowledge area is approximate.





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