PSI Services LLC
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WASHINGTON STATE
DEPARTMENT OF LABOR & INDUSTRIES

ELECTRICAL CERTIFICATION CANDIDATE INFORMATION BULLETIN

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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 Department of Labor & Industries (L&I) has contracted with PSI Services LLC (PSI) to conduct its examination program. PSI works closely with L&I to be certain that the examination meets local as well as national requirements in basic principles and examination development standards.

GUIDELINES FOR L&I CERTIFICATION

HOW TO OBTAIN A CERTIFICATION

1. Electrician candidates must first apply and be approved by the Department of Labor & Industries (L&I) before they can register for a PSI exam.

   Applications may be obtained from L&I at: www.lni.wa.gov/ElectricalLicensing. Select Electrician, review all information and find the Apply tab.

   When L&I approves your application, they will send you an eligibility notice with instructions and an Exam Unique ID that you must use to register for your PSI exam.

2. Administrator candidates need no approval from L&I to register for a PSI exam.

   Once candidates pass all sections of the exam, they can avoid having to retest by applying for their administrator certificate within 90 days of the last passing score. See PSI score reports for application instructions.

Learn more: https://www.lni.wa.gov/ElectricalExamInfo

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

PSI Services LLC
(855) 834-8751
https://test-takers.psiexams.com/walaborind/contact-us

EXAMINATION SCHEDULING PROCEDURES

Once you have been approved by L&I, you are responsible for contacting PSI to schedule an appointment to take the examination. You may either schedule via the Internet at https://test-takers.psiexams.com/walaborind, or schedule over the telephone at (855) 834-8751.

- 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 3rd attempt, you must wait 3 months from the last fail date to retest for each future attempt.
- For Administrators, you must pass all sections of the examination within one year.
- 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

ONLINE SCHEDULING

For the fastest and most convenient scheduling, register online at: https://test-takers.psiexams.com/walaborind Select Sign in / Create Account. Select Create Account.

You are now 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.

- Electrician candidates, your WLI_ID_Number is your Exam Unique ID provided on your Department of Labor & Industries exam eligibility notice.
- Administrator candidates: Your WLI_ID_Number is your SSN without spaces, dashes, or other special characters. No approval from L&I is required to take an administrator exam.

TELEPHONE REGISTRATION

For telephone registration, you will need a valid credit card (Visa, MasterCard, American Express or Discover). PSI registrars are available at (855) 834-8751, Monday through Friday between 4:30 am and 7:00, and Saturday-Sunday between 6:00 am and 2:30 pm, Pacific Time, to receive your payment and schedule your appointment for the examination.

- Electrician candidates: Your WLI_ID_Number is your Exam Unique ID provided on your Department of Labor & Industries exam eligibility notice.

- Administrator candidates: Your WLI_ID_Number is your SSN without spaces, dashes, or other special characters. No approval from L&I is required to take an administrator exam.

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 (855) 834-8751.

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 (855) 834-8751 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 L&I for approval for exam accommodations.

Learn more: Select the Special Accommodations tab at: https://www.lni.wa.gov/ElectricalExamInfo. Please do NOT contact PSI.

For fastest service, request an accommodation by email to ElectricalProgram@Lni.wa.gov or call 360-902-5249.

You can also request by mail: Washington State Department of Labor & Industries, PO Box 44460, Olympia, WA 98504-4460.

Do not schedule your examination with PSI until you have received a determination on your request from L&I.

EXAMINATION SITE CLOSING FOR AN EMERGENCY

In the event that severe weather or another emergency forces the closure of an examination site on a scheduled examination date, your examination will be rescheduled. PSI personnel will attempt to contact you in this situation. However, you may check the status of your examination schedule by calling (855) 834-8751. Every effort will be made to reschedule your examination at a convenient time as soon as possible. You may also check our website at https://test-takers.psiexams.com/walaborind.

EXAMINATION SITE LOCATIONS

The following are the Washington State examination centers where you may take the examination. Other locations are available nationwide.

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

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

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

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

Olympia
3435 Martin Way E, Suite I
Olympia, WA 98501

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

Richland
Tri-Cities Testing Center
3100 George Washington Way #135
Richland, WA 99354
509-371-9283

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

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

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

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

Vancouver
11818 SE Mill Plain Blvd, Suite 402
Vancouver, WA 98684

Yakima
3611 River Rd Suite 120
Yakima, WA 98902

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.*

CLICK HERE FOR A VIDEO OF THE TEST CENTER EXPERIENCE

REQUIRED IDENTIFICATION AT EXAMINATION SITE

Candidates must register for the exam with their LEGAL first and last name as it appears on their government issued identification. The required identification below must match the first and last name under which the candidate is registered. Candidates are required to bring one (1) form of a valid (non-expired) signature bearing identification to the test site.

PRIMARY IDENTIFICATION – Choose One
NOTE: ID must contain candidate's signature, photo, be valid and unexpired.

- State issued driver's license
- State issued identification card
- US Government Issued Passport
- US Government Issued Military Identification Card
- US Government Issued Alien Registration Card
- Canadian Government Issued ID

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.

TAKING THE EXAM BY COMPUTER

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

CLICK HERE FOR THE TUTORIAL

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.**

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.

You can print your score report from the online account.

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. Select PDF before printing.

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 2020 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. Learn more about specialties in WAC 296-46B-920(2).

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
Time Allowed per Section (hours)	**4**	**1**	**2**	**4**	**1**	**2**	**3**	**1**
Knowledge Area								
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	
Total Questions	**80**	**20**	**10**	**65**	**17**	**10**	**60**	**17**
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
Time Allowed per Section (hours)	**3**	**1**	**2**	**3**	**1**	**2**	**2**	**1**
Knowledge Area								
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	
Total Questions	**60**	**20**	**10**	**44**	**17**	**10**	**40**	**17**

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**
Knowledge Area								
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	
Total Questions	**50**	**20**		**40**	**17**		**34**	**17**

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

03A-Domestic Pump								
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**		**1**	**1**
Knowledge Area								
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	
Total Questions	**34**	**20**		**30**	**17**		**20**	**17**
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**
Knowledge Area								
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	
Total Questions	**40**	**20**		**34**	**17**		**30**	**17**

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

06-Limited Energy

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)	**2**	**1**		**2**	**1**		**2**	**1**
Knowledge Area								
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	
Total Questions	**50**	**20**		**44**	**17**		**34**	**17**

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
Time Allowed per Section (hours)	**3**	**1**		**2**	**1**		**2**	**1**
Knowledge Area								
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	
Total Questions	**50**	**20**		**40**	**17**		**34**	**17**
Note: The number of questions in any individual knowledge area is approximate.								

06B-HVAC/R Restricted								
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)	**2**	**1**		**2**	**1**		**1**	**1**
Knowledge Area								
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	
Total Questions	**34**	**20**		**30**	**17**		**20**	**17**
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**
Knowledge Area								
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	
Total Questions	**54**	**20**		**50**	**17**		**40**	**17**
Note: The number of questions in any individual knowledge area is approximate.								

07A-Nonresidential Lighting Maintenance & Lighting Retrofit								
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)	**1**	**1**		**1**	**1**		**1**	**1**
Knowledge Area								
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	
Total Questions	**20**	**20**		**17**	**17**		**17**	**17**
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
Time Allowed per Section (hours)	**2**	**1**		**2**	**1**		**1**	**1**
Knowledge Area								
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	
Total Questions	34	20		30	17		20	17
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
Time Allowed per Section (hours)	**2**	**1**		**2**	**1**		**2**	**1**
Knowledge Area								
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	
Total Questions	**40**	**20**		**30**	**17**		**24**	**17**

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
Time Allowed per Section (hours)	**2**	**1**		**2**	**1**		**1**	**1**
Knowledge Area								
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	
Total Questions	**30**	**20**		**24**	**17**		**20**	**17**

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
Time Allowed per Section (hours)	**2**	**1**		**2**	**1**		**1**	**1**
Knowledge Area								
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	
Total Questions	**34**	**20**		**30**	**17**		**30**	**17**
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
Time Allowed per Section (hours)	**2**	**1**		**2**	**1**		**2**	**1**
Knowledge Area								
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	
Total Questions	**34**	**20**		**30**	**17**		**30**	**17**

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

09-Telecommunications								
Type of Certificate				**Administrator**				
Examination Section				NEC & Theory	WA Codes			
Time Allowed per Section (hours)				**2**	**1**			
Knowledge Area								
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				
Total Questions				**30**	**17**			
Note: The number of questions in any individual knowledge area is approximate.								