WASHINGTON STATE DEPARTMENT OF LABOR & INDUSTRIES

Candidate Information Bulletin for Electrical and Administrator Examinations

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Examinations by PSI Services LLC

The Department of Labor & Industries (L&I) has contracted with PSI Services LLC (PSI) to deliver its examinations.

PSI has test centers in your area - nationwide. All examinations are in-person and based on the 2020 edition of the National Electrical Code (NEC).

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

> Learn how to apply for examination approval www.lni.wa.gov/ElectricalLicensing. Select Electrician or Master 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.

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

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

For all master electrician and electrician examinations, all sections must be successfully completed within a **two-year** examination period beginning with the date of the examination approval. Within the two-year examination period, the candidate does not have to retake any sections successfully completed within the two-year examination period. If all sections are not successfully completed within the two-year examination period, the candidate must reapply for examination approval and begin a new two-year examination period. Candidates must attempt all sections each time they begin a new two-year examination period. Scores from previous examination periods are not applicable to new examination periods.

For all administrator examinations, all sections must be successfully completed within a **two-year** examination period beginning on the date of first attempt and ending two years later. Within their two-year examination period, candidates do not have to retake any sections successfully completed within the two-year examination period. If all sections are not successfully completed within the two-year examination period, the candidate must begin a new two-year examination period. Candidates must attempt all sections each time they begin a new two-year examination period. Scores from previous examination periods are not applicable to new examination periods.

Intervals between attempts:

If a candidate for an electrician, administrator, or master electrician examination makes a failing score within their **two-year** examination period, the candidate must wait 14 days before being eligible to retest unless the following 60-day waiting period required between attempts applies.

Sixty day waiting period: if a candidate fails one or more sections of an electrician, administrator, or master electrician examination three times within their two-year examination period, the candidate must wait **60 days** to retake any section. The 60-day interval between attempts applies until the candidate successfully completes the examination, meaning it applies to their currrent

two-year examination period and all future two-year examination periods until they successfully complete the examination.

All questions and requests for information pertaining to the examination or scheduling should be directed to PSI:

(855) 834-8751
Website: https://test-takers.psiexams.com/walaborind
E-mail: examschedule@psionline.com

Examination Payment and Scheduling Procedures

Examination Fee

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

FEES ARE NOT REFUNDABLE OR TRANSFERABLE. Your examination fee will be forfeited if you do not test within 1 year of the date your examination fee is received by PSI.

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 Scheduling

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.

Rescheduling an Examination Appointment

You may reschedule an examination appointment without forfeiting your fee if your notice is received 2 days before the scheduled examination date. You may reschedule at https://test-takers.psiexams.com/tdlr or call PSI at (833) 834-8751.

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

Losing Your Examination Fee

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 reschedule your appointment at least 2 days before the scheduled examination date.
- ✓ Do not appear for your examination appointment.
- ✓ Arrive after the examination start time.
- ✓ Do not present proper identification when you arrive for the examination.

Examination Accommodations (ADA)

All PSI examination centers are equipped to provide access in accordance with the Americans with Disabilities Act (ADA) of 1990, and exam accommodations will be made in meeting a candidate's needs. A candidate with a disability or a candidate who would otherwise have difficulty taking the examination should request alternative arrangements by **Clicking Here**.

Fill out the link and attach the required documentation. Within 5 business days you will be notified, via email, whether your request has been approved or denied. If approved, please call 800-367-1565 x6775 to schedule.

Examination Site Closing for an Emergency

If severe weather or an 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 (833) 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 Review

All challenges must be made in writing and received by the Chief Electrical Inspector no later than 20 days after your exam was taken.

Learn more: How to challenge exam results.

Washington State Examination Site Locations

It is your responsibility to verify that you are going to the correct site.

Bremerton Avian Flight Center at Bremerton National Airport 8900 State Hwy 3 SW, Suite 101 Bremerton, WA 98367	**Ellensburg - Central Washington University** 400 E University Way Bouillon Hall-RM 125 Ellensburg, WA 98926
Everett 1010 S.E. Everett Mall Way, Suite 208 Everett, WA 98208	**Federal Way - Pacific Northwest Testing and Assessment Services** 33801 1st Way S, Suite 231 Federal Way, WA 98003
Kent Crest Airpark Airport 29300 179th PL SE Kent, WA 98042	**Liberty Lake – Tactix** 22910 E Appleway Ave, Ste 3 Liberty Lake, WA 99019
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	**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	

The Check-in Process to Take Your Examination

On the day of the examination, you should arrive 30 minutes prior to your scheduled appointment time. This allows time for check-in; identification verification and provides time to familiarize yourself with the examination process. NO conversing or any other form of communication among candidates is permitted once you enter the examination area. If youarrive late or do not appear in the appropriate attire, you will 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 for Examination

You must provide 1 form of identification (ID). The identification must be a VALID form of government-issued ID, such as a passport book or foreign passport book, driver's license, or state ID.

- 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

Failure to provide 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 and will forfeit your examination fee.

Security Procedures

The following examination protocols apply during any examination. PSI may pause or terminate an examination at any time. Failure to follow the examination protocol, may result in the disqualification of examination results, prohibition from taking future examinations,and may lead to legal action.

- You will be given 2 pieces of scratch paper and a pencil. All must be returned at check-out.
- 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.

Prohibited Items:

- Reference materials of any kind other than original copyrighted material or printed copies of RCW 19.28 and WAC 296-46B, provided the copies are in a binder.
- Electronic devices of any type, including but not limited to; cellular phones, cameras, computers of any type (e.g., laptops, tablets, iPads), earbuds, electronic games, electronic watches, headsets, mobile devices, music players (e.g., iPods), pagers, radios, recording devices (audio or video), smart watches, televisions, etc.).
- Hats or headgear not worn for religious reasons or as religious apparel, including hats, baseball caps, or visors.
- Bulky or loose clothing or coats including but not limited to, open sweaters, cardigans, shawls, scarves, vests, jackets and coats.
    - In the event you are asked to remove bulky or loose outerwear, appropriate attire, such as a shirt or blouse should be worn underneath.
- Other personal items, including but not limited to; backpacks, briefcases, chewing gum, drinks, food, good luck items, notebooks, paper or other materials on which to write, pens, pencils or other writing devices, purses, reading material, smoking or chewing products, wallets, etc.

Prohibited Behavior:

- Giving or receiving assistance on an examination.
- Copying or communicating examination content.
- Using outside references or resources during an exam, examples:
    - Attempting to use a telephone or mobile device.
- Engaging in disruptive behavior during check-in or during an exam, examples:
    - Acting in an inappropriate manner.
    - Using abusive language.
    - Speaking aloud.
    - Causing noise unrelated to keyboard typing.
- Engaging in prohibited behavior during check-in or during an exam, examples:
    - Reading questions out loud.
    - Leaving the room without proctor approval.
    - Using instant messaging, or other electronic communication.

- Capturing a picture or video of exam items.
- Attempting to use telephone or mobile device.
- Obstructing the proctor's view.

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.

No prohibited items are allowed. If prohibited items are found during check-in, candidatesshall put them in the provided secure storage or return these items to their vehicle. PSI will not be responsible forthe security of any personal belongings or prohibited items.

Any candidate seen giving or receiving assistance on an examination, found with prohibited items, or displaying prohibited behavior or violating any security regulations will have his or her examination terminated, and be asked to surrender all examination materials. Allsuch instances will be reported to the examination sponsor.

Additional protocols for testing at a testing center, include but not limited to:

- Person(s) accompanying an examination candidate may not wait in the examination center, inside the building or on the building'sproperty. This applies to guests of any nature, including drivers, children, friends, family, colleagues, or instructors.
- Once candidates have been seated and the examination begins, they may leave the examination room only to use the restroom, andonly after obtaining permission from the proctor. Candidates will not receive extra time to complete the examination.

Taking Your Examination at a PSI Test Site

Click here for the Tutorial in English

Written Score Reporting

You must score 70% to pass.

Your score will be displayed on screen at the end of the examination and a score report will be printed for you. If you fail, the score report will include the diagnostic report indicating your strengths and weaknesses by examination type. If you misplace your score report, you may print it from your online account.

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 19.28/WAC 296-46B can be used, provided they are in a binder. Find printable exam friendly versions on the L&I Electrical Laws, Rules & Policies webpage.

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 by reviewing the following Examination Content Outlines. 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

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.

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