

ELECTRICAL: RESIDENTIAL WIREMAN

Residential wiremen perform many of the same tasks as inside wiremen, but limited to residential environments such as single-family dwellings, apartment complexes and condominiums. The Residential Wireman installs, maintains and repairs the electrical systems in homes and other types of residential installations. CITC provides a comprehensive, two-year Electrical curriculum that prepares workers for their “02” electrical journeyman exam.

Note: CITC is transitioning from requiring paper NCCER Carpentry textbooks and NCCERConnect. Carpentry students are now required to purchase NCCERConnect only. NCCERConnect, which includes access to an e-text, will become the primary text materials for class and will be utilized for class and homework assignments. Students will be required to purchase an access code to NCCERConnect on the 1st day of class.

It is a requirement of CITC students to own or have access to a laptop or tablet computer with video, audio, camera, microphone, and wireless network access. Personal student laptop or tablet computer devices will be required in class each day. Additionally, all students will need to have access to a reliable internet source when classes begin in the fall. For additional information on the technical requirements for please contact the CITC office at (425) 454-2482.



APPRENTICESHIP MONTHLY WORK LOGS

Apprenticeship monthly work logs can be submitted to the apprenticeship department via email: worklogs@citcwa.org; fax: **(425) 289-0085** (this fax number does not receive texts); mail to the CITC main office: **1930 116th Ave NE Bellevue, WA 98004**.

NCCERCONNECT 2.0 WITH PEARSON eTEXT ACCESS CARD

NCCERConnect 2.0 is an online training program that enhances student learning with a range of visual, auditory, and interactive elements. Your Pearson eText Access Card will give you access to an eBook version of the textbook included in the package.

<https://registration.mypearson.com>



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RESIDENTIAL WIREMAN LEVEL 1

Minimum: 201 hours per year

RESIDENTIAL WIREMAN 101: FALL QUARTER

Students will begin with an orientation for the electrical trade, job site safety. Students will review RCW 19.28 and WAC 29-46B; job site safety practices and standards. Includes OSHA 10 Training. Students will review electrical mathematics, an introduction to electrical circuits, basic electrical theory (Ohms and Kirchoff's Law), various circuits, and will begin using the National Electrical Code and Washington State rules (RCW/WAC). Emphasis will be placed on following safe working procedures. Lab date schedule will be provided at the beginning of the quarter. Scheduled dates may be adjusted at instructor's discretion.

RESIDENTIAL WIREMAN 102: WINTER QUARTER

Students continue extensive use of the National Electrical Code and Washington State rules (RCW/WAC), learn how to install various device boxes, how to hand bend small diameter conduit, and types & uses of raceways & fittings. Emphasis will be placed on following safe working procedures. Lab date schedule will be provided at the beginning of the quarter. Scheduled dates may be adjusted at instructor's discretion.

RESIDENTIAL WIREMAN 103: SPRING QUARTER

Students learn about the NEC requirements for conductors and cables, begin using basic electrical drawings, review code and installation requirements for residential electrical service, and learn to use multiple pieces of electrical test equipment. Emphasis will be placed on following safe working procedures. Lab date schedule will be provided at the beginning of the quarter. Scheduled dates may be adjusted at instructor's discretion.

BOOKS - RESIDENTIAL WIREMAN LEVEL 1		
It is the student's responsibility to have the following book(s) on the first night of class:		
REQUIRED TEXT	Soft Cover ISBN	Hard Cover ISBN
NCCER Core Curriculum Trainee Guide, 6th Edition, NCCERConnect 2.0 with eText	Purchase NCCERConnect through https://registration.myperson.com/	
Electrical Level 1 Trainee Guide, 10th Edition, NCCERConnect 2.0 with eText	Purchase NCCERConnect through https://registration.myperson.com/	
2020 National Electric Code (NEC)	978-1-4559-2297-0	
Delmar's Standard Textbook of Electricity, 7th Edition		9781337900348
Washington State Electrical RCW/WACs	Free download available through L&I	
OPTIONAL TEXT		
NCCER Core Curriculum Trainee Guide, 6th Edition	9780137483341	9780137483358
NCCER Electrical Level 1 Trainee Guide, 10th Edition	9780136908531	9780136908654

*Purchase NCCERConnect through <https://registration.myperson.com/>



All first year classes include
OSHA 10 for Construction



RESIDENTIAL WIREMAN LEVEL 2

Minimum: 201 hours per year

RESIDENTIAL WIREMAN 201: FALL QUARTER

Students will complete a review of math concepts and code from the previous year; then discuss alternating current and how to apply Ohm’s law; AC and DC motors through theory & application; electric lighting, and related NEC articles and RCW/WAC rules. Emphasis will be placed on following safe working procedures. Lab date schedule will be provided at the beginning of the quarter. Scheduled dates may be adjusted at instructor’s discretion.

RESIDENTIAL WIREMAN 202: WINTER QUARTER

Students will discuss and perform conduit bending; sizing and installing pull and junction boxes; conductor Installations; cable trays, and related NEC articles and RCW/WAC rules. Emphasis will be placed on following safe working procedures. Lab date schedule will be provided at the beginning of the quarter. Scheduled dates may be adjusted at instructor’s discretion.

RESIDENTIAL WIREMAN 203: SPRING QUARTER

Students will learn about conductor terminations & splices; will discuss and perform grounding & bonding; principles, selection and installation of circuit breakers & fuses; control systems and fundamental concepts; and related NEC articles and RCW/WAC rules. Review of green building best practices and alternative energy sources will also be included. Emphasis will be placed on following safe working procedures. Lab date schedule will be provided at the beginning of the quarter. Scheduled dates may be adjusted at instructor’s discretion.

BOOKS - RESIDENTIAL WIREMAN LEVEL 2		
It is the student’s responsibility to have the following book(s) on the first night of class:		
REQUIRED TEXT	Soft Cover ISBN	Hard Cover ISBN
Electrical Level 2 Trainee Guide, 10th Edition, NCCERConnect 2.0 with eText	Purchase NCCERConnect through https://registration.myperson.com/	
Delmar’s Standard Textbook of Electricity, 7th Edition		9781337900348
2020 National Electric Code (NEC)	978-1-4559-2297-0	
Soares Book on Grounding and Bonding, 14th Edition (NEC 2020)		9781890659851
Washington State Electrical RCW/WACs	Free download available through L&I	
OPTIONAL TEXT		
NCCER Electrical Level 2 Trainee Guide, 10th Edition	9780136897828	9780136897743

*Purchase NCCERConnect through <https://registration.myperson.com/>

Electrical: Residential Wireman Instructors

As a part of our dedication and commitment to training, we take pride in delivering top quality instructors. CITC’s instructors are highly skilled journey-level workers who bring their knowledge and years of trade experience into the classroom. All CITC instructors have been certified certification by the National Center for Construction Education and Research.

See list under [Commercial Inside Wireman](#)

Residential Wireman Schedule & Tuition

Eastern Washington Region

RESIDENTIAL WIREMAN LEVEL 1								
Pasco	101	Fall	13 weeks	81 hours	Fri/Sat	8a-5p	September 16 – December 10 + Assignments	Tuition: \$1,325
Pasco	102	Wtr	8 weeks	60 hours	Fri/Sat	8a-5p	January 13 – March 11 + Assignments	Tuition: \$1,325
Pasco	103	Spr	9 weeks	60 hours	Fri/Sat	8a-5p	April 14 – June 10 + Assignments	Tuition: \$1,325
Spokane 1A	101	Fall	13 weeks	81 hours	Fri/Sat	8a-5p	September 9 – December 3 + Assignments	Tuition: \$1,325
Spokane 1A	102	Wtr	8 weeks	60 hours	Fri/Sat	8a-5p	January 13 – March 11 + Assignments	Tuition: \$1,325
Spokane 1A	103	Spr	9 weeks	60 hours	Fri/Sat	8a-5p	April 14 – June 3 + Assignments	Tuition: \$1,325
Spokane 1B	101	Fall	12 weeks	81 hours	Fri/Sat	8a-5p	September 23 – December 17 + Assignments	Tuition: \$1,325
Spokane 1B	102	Wtr	8 weeks	60 hours	Fri/Sat	8a-5p	January 27 – March 25 + Assignments	Tuition: \$1,325
Spokane 1B	103	Spr	9 weeks	60 hours	Fri/Sat	8a-5p	April 28 – June 17 + Assignments	Tuition: \$1,325
Spokane 1C	101	Fall	12 weeks	81 hours	Fri/Sat	8a-5p	September 16 – December 10 + Assignments	Tuition: \$1,325
Spokane 1C	102	Wtr	8 weeks	60 hours	Fri/Sat	8a-5p	January 20 – March 18 + Assignments	Tuition: \$1,325
Spokane 1C	103	Spr	9 weeks	60 hours	Fri/Sat	8a-5p	April 21 – June 10 + Assignments	Tuition: \$1,325
RESIDENTIAL WIREMAN LEVEL 2								
Pasco	201	Fall	13 weeks	81 hours	Fri/Sat	8a-5p	September 23 – December 17 + Assignments	Tuition: \$1,325
Pasco	202	Wtr	8 weeks	60 hours	Fri/Sat	8a-5p	January 27 – March 25 + Assignments	Tuition: \$1,325
Pasco	203	Spr	9 weeks	60 hours	Fri/Sat	8a-5p	April 28 – June 17 + Assignments	Tuition: \$1,325
Spokane 2A	201	Fall	13 weeks	81 hours	Fri/Sat	8a-5p	September 9 – December 3 + Assignments	Tuition: \$1,325
Spokane 2A	202	Wtr	8 weeks	60 hours	Fri/Sat	8a-5p	January 6 – March 4 + Assignments	Tuition: \$1,325
Spokane 2A	203	Spr	9 weeks	60 hours	Fri/Sat	8a-5p	April 7 – June 3 + Assignments	Tuition: \$1,325
Spokane 2B	201	Fall	13 weeks	81 hours	Fri/Sat	8a-5p	September 23 – December 17 + Assignments	Tuition: \$1,325
Spokane 2B	202	Wtr	8 weeks	60 hours	Fri/Sat	8a-5p	January 20 – March 18 + Assignments	Tuition: \$1,325
Spokane 2B	203	Spr	9 weeks	60 hours	Fri/Sat	8a-5p	April 21 – June 17 + Assignments	Tuition: \$1,325

Western Washington Region

RESIDENTIAL WIREMAN LEVEL 1								
Bellevue 1A	101	Fall	14 weeks	87 hours	Mon/Wed	5:30p-9p	September 12 – December 14	Tuition: \$1,750
Bellevue 1A	102	Wtr	9 weeks	63 hours	Mon/Wed	5:30p-9p	January 9 – March 22	Tuition: \$1,750
Bellevue 1A	103	Spr	8 weeks	51 hours	Mon/Wed	5:30p-9p	April 10 – May 24	Tuition: \$1,750
Bellevue 1B	101	Fall	14 weeks	87 hours	Tue/Thu	5:30p-9p	September 13 – December 13	Tuition: \$1,750
Bellevue 1B	102	Wtr	8 weeks	63 hours	Tue/Thu	5:30p-9p	January 10 – March 13	Tuition: \$1,750
Bellevue 1B	103	Spr	7 weeks	51 hours	Tue/Thu	5:30p-9p	April 18 – May 18 + 2 Saturdays	Tuition: \$1,750
Bellevue 1C	101	Fall	14 weeks	81 hours	Fri/Sat	8a-5p	September 9 – December 3 + Assignments	Tuition: \$1,750
Bellevue 1C	102	Wtr	9 weeks	60 hours	Fri/Sat	8a-5p	January 6 – March 4 + Assignments	Tuition: \$1,750
Bellevue 1C	103	Spr	8 weeks	60 hours	Fri/Sat	8a-5p	April 7 – June 3 + Assignments	Tuition: \$1,750
Bellingham	101	Fall	13 weeks	86 hours	Mon/Wed	5:30p-9p	September 19 – December 5 + 2 Saturdays	Tuition: \$1,750
Bellingham	102	Wtr	9 weeks	65 hours	Mon/Wed	5:30p-9p	January 9 – March 1 + 2 Saturdays	Tuition: \$1,750
Bellingham	103	Spr	6 weeks	50 hours	Mon/Wed	5:30p-9p	April 17 – May 17 + 2 Saturdays	Tuition: \$1,750
Marysville 1A	101	Fall	14 weeks	87 hours	Mon/Wed	5:30p-9p	September 12 – December 14	Tuition: \$1,750
Marysville 1A	102	Wtr	9 weeks	63 hours	Mon/Wed	5:30p-9p	January 9 – March 22	Tuition: \$1,750
Marysville 1A	103	Spr	8 weeks	51 hours	Mon/Wed	5:30p-9p	April 10 – May 24	Tuition: \$1,750
Marysville 1B	101	Fall	12 weeks	81 hours	Fri/Sat	8a-5p	September 9 – December 3 + Assignments	Tuition: \$1,750
Marysville 1B	102	Wtr	8 weeks	60 hours	Fri/Sat	8a-5p	January 6 – March 4 + Assignments	Tuition: \$1,750

Residential Wireman Schedule & Tuition *continued*

Western Washington Region *continued*

Marysville 1B	103	Spr	9 weeks	60 hours	Fri/Sat	8a-5p	April 7 – June 3 + Assignments	Tuition: \$1,750
Tacoma 1A	101	Fall	14 weeks	87 hours	Mon/Wed	5:30p-9p	September 12 – December 14	Tuition: \$1,750
Tacoma 1A	102	Wtr	9 weeks	63 hours	Mon/Wed	5:30p-9p	January 9 – March 22	Tuition: \$1,750
Tacoma 1A	103	Spr	8 weeks	51 hours	Mon/Wed	5:30p-9p	April 10 – May 24	Tuition: \$1,750
Tacoma 1B	101	Fall	14 weeks	87 hours	Tue/Thu	5:30p-9p	September 13 – December 13	Tuition: \$1,750
Tacoma 1B	102	Wtr	9 weeks	63 hours	Tue/Thu	5:30p-9p	January 10 – March 13	Tuition: \$1,750
Tacoma 1B	103	Spr	8 weeks	51 hours	Tue/Thu	5:30p-9p	April 18 – May 18 + 2 Saturdays	Tuition: \$1,750
Vancouver	101	Fall	14 weeks	87 hours	Mon/Wed	5:30p-9p	September 12 – December 14	Tuition: \$1,750
Vancouver	102	Wtr	9 weeks	63 hours	Mon/Wed	5:30p-9p	January 9 – March 22	Tuition: \$1,750
Vancouver	103	Spr	8 weeks	51 hours	Mon/Wed	5:30p-9p	April 10 – May 24	Tuition: \$1,750

RESIDENTIAL WIREMAN LEVEL 2

Bellevue 2A	201	Fall	14 weeks	87 hours	Mon/Wed	5:30p-9p	September 12 – December 14	Tuition: \$1,750
Bellevue 2A	202	Wtr	9 weeks	63 hours	Mon/Wed	5:30p-9p	January 9 – March 22	Tuition: \$1,750
Bellevue 2A	203	Spr	8 weeks	51 hours	Mon/Wed	5:30p-9p	April 10 – May 24	Tuition: \$1,750
Bellevue 2B	201	Fall	14 weeks	87 hours	Tue/Thu	5:30p-9p	September 13 – December 13	Tuition: \$1,750
Bellevue 2B	202	Wtr	9 weeks	63 hours	Tue/Thu	5:30p-9p	January 10 – March 13	Tuition: \$1,750
Bellevue 2B	203	Spr	8 weeks	51 hours	Tue/Thu	5:30p-9p	April 18 – May 18 + 2 Saturdays	Tuition: \$1,750
Bellingham	201	Fall	12 weeks	86 hours	Tue/Thu	5:30p-9p	September 20 – December 6 + 2 Saturdays	Tuition: \$1,750
Bellingham	202	Wtr	7 weeks	65 hours	Tue/Thu	5:30p-9p	January 10 – February 28 + 2 Saturdays	Tuition: \$1,750
Bellingham	203	Spr	6 weeks	50 hours	Tue/Thu	5:30p-9p	April 18 – May 18 + 2 Saturdays	Tuition: \$1,750
Marysville	201	Fall	14 weeks	81 hours	Fri/Sat	8a-5p	September 16 – December 10 + Assignments	Tuition: \$1,750
Marysville	202	Wtr	9 weeks	60 hours	Fri/Sat	8a-5p	January 13 – March 11 + Assignments	Tuition: \$1,750
Marysville	203	Spr	8 weeks	60 hours	Fri/Sat	8a-5p	April 14 – June 10 + Assignments	Tuition: \$1,750
Tacoma 2A	201	Fall	14 weeks	87 hours	Mon/Wed	5:30p-9p	September 12 – December 14	Tuition: \$1,750
Tacoma 2A	202	Wtr	9 weeks	63 hours	Mon/Wed	5:30p-9p	January 9 – March 22	Tuition: \$1,750
Tacoma 2A	203	Spr	8 weeks	51 hours	Mon/Wed	5:30p-9p	April 10 – May 24	Tuition: \$1,750
Tacoma 2B	201	Fall	14 weeks	87 hours	Tue/Thu	5:30p-9p	September 13 – December 13	Tuition: \$1,750
Tacoma 2B	202	Wtr	9 weeks	63 hours	Tue/Thu	5:30p-9p	January 10 – March 13	Tuition: \$1,750
Tacoma 2B	203	Spr	8 weeks	51 hours	Tue/Thu	5:30p-9p	April 18 – May 18 + 2 Saturdays	Tuition: \$1,750
Vancouver	201	Fall	14 weeks	87 hours	Mon/Wed	5:30p-9p	September 12 – December 14	Tuition: \$1,750
Vancouver	202	Wtr	9 weeks	63 hours	Mon/Wed	5:30p-9p	January 9 – March 22	Tuition: \$1,750
Vancouver	203	Spr	8 weeks	51 hours	Mon/Wed	5:30p-9p	April 10 – May 24	Tuition: \$1,750



All first year classes include
OSHA 10 for Construction

