

LOW ENERGY/SOUND & COMMUNICATION TECHNICIAN LEVEL 1

Minimum: 201 hours per year

LOW ENERGY/SOUND & COMMUNICATION TECHNICIAN 101: FALL QUARTER

Students will receive an overview of the electrical trade and be introduced to electrical safety, trade math for electricians, electrical drawings, electrical pathways and spaces, and hand bending of conduit. Includes a First Aid/CPR course. Schedule for lab dates will be handed out the first night of class each quarter.

LOW ENERGY/SOUND & COMMUNICATION TECHNICIAN 102: WINTER QUARTER

Students will be introduced to the 2017 National Electric Code® and will learn low voltage cabling, DC circuits, AC circuits, and switching devices and timers.

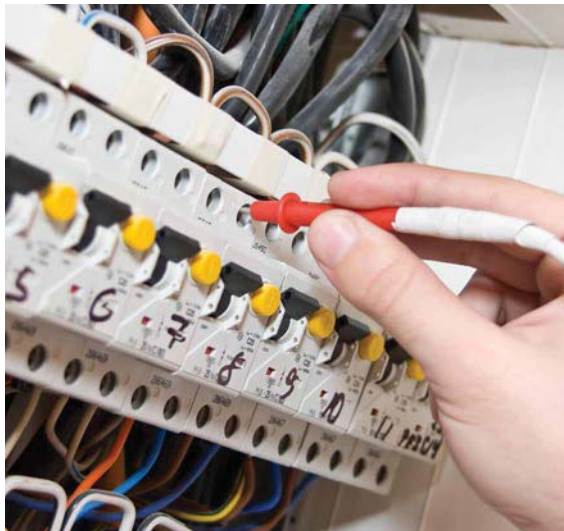
LOW ENERGY/SOUND & COMMUNICATION TECHNICIAN 103: SPRING QUARTER

Students will learn about semiconductors and integrated circuits, codes and standards, wire and cable terminations, and electrical test equipment. Includes OSHA 10 training.

REQUIRED BOOKS - LOW ENERGY/SOUND & COMMUNICATION TECHNICIAN LEVEL 1

It is the student's responsibility to have the following book(s) on the first night of class:

NCCER Core Curriculum Package - includes the following: <ul style="list-style-type: none"> • Core Curriculum Trainee Guide, 5th Edition • Core Curriculum Trainee Guide, 5th Edition, NCCERConnect 2.0 with Pearson eText Access Card 	ISBN: 9780134391922
NCCER Electronic Systems Technician Level 1 Package: <ul style="list-style-type: none"> • Electronic Systems Technician Level 1 Trainee Guide, 3rd Edition, Paperback • Electronic Systems Technician Level 1 Trainee Guide, 3rd Edition, NCCERConnect 2.0 with Pearson eText Access Card 	ISBN: 9780134274591
NFPA 72, National Fire Alarm and Signaling Code Handbook, 2019 Edition, Paperback or NFPA 72, National Fire Alarm and Signaling Code Handbook, 2019 Edition, PDF Version	ISBN: 9781455920563
2020 National Electric Code (NEC)	ISBN: 9781455922970
Washington State Electrical RCW/WACs	Free download available through L&I



LOW ENERGY/SOUND & COMMUNICATION TECHNICIAN LEVEL 2

Minimum: 201 hours per year

LOW ENERGY/SOUND & COMMUNICATION TECHNICIAN 201: FALL QUARTER

Students will learn about power quality and grounding, buses and networks, fiber optics, and wireless communication. Schedule for lab dates will be handed out the first night of class each quarter.

LOW ENERGY/SOUND & COMMUNICATION TECHNICIAN 202: WINTER QUARTER

Students will learn about rack assemblies, maintenance and repair of low voltage systems, an introduction to audio and video systems, and an introduction to green building practices.

LOW ENERGY/SOUND & COMMUNICATION TECHNICIAN 203: SPRING QUARTER

Students will learn about broadband systems, telecommunications systems, and continue learning about audio and video systems.

REQUIRED BOOKS - LOW ENERGY/SOUND & COMMUNICATION TECHNICIAN LEVEL 2

It is the student's responsibility to have the following book(s) on the first night of class:

NCCER Electronic Systems Technician Level 2 Package: <ul style="list-style-type: none"> • Electronic Systems Technician Level 2 Trainee Guide, 3rd Edition, Paperback • Electronic Systems Technician Level 2 Trainee Guide, 3rd Edition, NCCERConnect 2.0 with Pearson eText Access Card 	ISBN: 9780134277615
NCCER Your Role in the Green Environment, 4th Edition, Paperback <i>or</i> NCCER Your Role in the Green Environment, 4th Edition, Adobe Acrobat Format	ISBN: 9780136701200 ISBN: 9780136639282
NFPA 72, National Fire Alarm and Signaling Code Handbook, 2019 Edition, Paperback <i>or</i> NFPA 72, National Fire Alarm and Signaling Code Handbook, 2019 Edition, PDF Version	ISBN: 9781455920563
2017 National Electric Code (NEC)	ISBN: 9781455912773
Washington State Electrical RCW/WACs	Free download available through L&I

LOW ENERGY/SOUND & COMMUNICATION TECHNICIAN LEVEL 3

Minimum: 201 hours per year (Not Offered)

LOW ENERGY SOUND & COMMUNICATION TECHNICIAN 301: FALL QUARTER

This quarter covers the design, installation guidelines and troubleshooting of intrusion detection systems; also the design, installation and troubleshooting of residential and commercial fire alarms.

LOW ENERGY/SOUND & COMMUNICATION TECHNICIAN 302: WINTER QUARTER

Students will study the system requirements, installation requirements and code specifications of nurse call and signaling systems found in health care facilities; review the installation and configuration, testing and troubleshooting of closed circuit TV systems in various sized facilities; learn about the installation practices and electrical codes related to various access control systems.

LOW ENERGY/SOUND & COMMUNICATION TECHNICIAN 303: SPRING QUARTER

Students will learn about the design and installation best practices for building networks in smart houses and businesses; participate in a comprehensive review of all related NEC code and associated Oregon and Washington State rules in preparation for licensing exams.

Low Energy/Sound & Communication Technician 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.

Tom Brown started in the trade in 1979. Owner operator of Olympic Security & Communications Systems in 1989. EL-06 Mater Electrician. Joined the CITC faculty in 2019.

Erik Skuja started in the trade in 1991. Became CITC Faculty member in 2018

Low Energy/Sound & Communication Technician Schedule & Tuition

Western Washington Region

LOW ENERGY/SOUND & COMMUNICATION TECHNICIAN LEVEL 1								
Marysville	101	Fall	16 weeks	87 hours	Mon/Wed	5p-8p	September 2 - December 16 + 1 Saturday	Tuition: \$1,545
Marysville	102	Wtr	10 weeks	63 hours	Mon/Wed	5p-8p	January 4 - March 10 + 1 Saturday	Tuition: \$1,545
Marysville	103	Spr	7 weeks	51 hours	Mon/Wed	5p-8p	April 12 - May 24 + 2 Saturdays	Tuition: \$1,545
LOW ENERGY/SOUND & COMMUNICATION TECHNICIAN LEVEL 2								
Marysville	201	Fall	14 weeks	87 hours	Tue/Thu	5p-8p	September 3 - December 3 + 2 Saturdays	Tuition: \$1,545
Marysville	202	Wtr	10 weeks	63 hours	Tue/Thu	5p-8p	January 4 - March 9 + 2 Saturdays	Tuition: \$1,545
Marysville	203	Spr	7 weeks	51 hours	Tue/Thu	5p-8p	April 13 - May 25 + 2 Saturdays	Tuition: \$1,545



All first year classes include
OSHA 10 for Construction



