

START: BASIC 100 Series

Introduction to electrical theory, electrical installation, and finding information in the NEC

102

Basic electrical circuits, including series, parallel and combination, and finding information in the NEC

103

Branch circuits receptacle circuits, special purpose outlets, electricity in batteries, liquids and gasses, and finding information in the NEC.

104

Intro to single-phase transformers and service calculations, overcurrent protection, motors, HVAC and specialty systems, and finding info in the NEC.



Level Up!

204

Single-phase motors generators, A/C and refrigeration, fire pumps, transformers, special and hazardous locations, and finding info in the NEC.

203

DC and 3-phase motors, wiring methods (raceways, boxes, switches, and panel-boards), equipment for general use, and finding info in the NEC. 202

3-phase transformers basic trigonometry, conductors and overcurrent protection, grounding, wiring methods, and finding info in the NEC.

201

Branch circuits and feeders, introduction to load calculations, services, magnetic induction, and finding information in the NEC.

INTERMEDIATE 200 Series

ADVANCED 300 Series

301

Coordinating blueprints and construction documents for electrical installation for commercial construction: Part 1.

302

303 Coordinating blueprints and construction documents for electrical installation for commercial construction: Part 2.

Get hands-on exp.
planning commercial
electrical installations.
Identify resources, job
specs, codes, and info
from the owner/
architect and SHJ, and
coordinate them all
with specific blueprints.

304

Assess, analyze, and take action. Size motor circuits, use a code-based path for error-free circuit installations and work effectively with inspectors to get your job approved.



Congrats, **ET Graduate!** 404

Electrician Certification **Test Preparation**

403

Foremanship Skills.

402

Solar Power; plus Residential Service and Troubleshooting 401

Introduction to Motor

JOURNEYMAN PREP 400 Series

> At any point after 401 but before 404, you will take Basic Motor Controls 1 & 2.

Get hands-on experience building control circuits for motors as you learn the basics of motor controls. BMC 1

Build on what you learned in BMC 1 by getting further hands-on experience building control circuits for motors. (Must be taken after BMC 1.) BMC 2

Choose the time that best fits your schedule.

- The chart above shows which classes you need to take to earn your certificate. Attend online, instructor-led classes (typically 2 nights per week), and onsite electrical labs (typically one Saturday per class).
- Work in the trade and gain the required on-the-job experience while you complete WECA's ET course path.
- By completing your electrical education with WECA, as well as the required on-the-job hours, you will qualify to take the California electrician certification exam.
- The courses listed above must be completed with a "pass" designation, and at least 600 course hrs completed (based on a goal of successfully completing 150 hrs per year) to be awarded the Electrician Trainee Program Certificate. Supplemental courses are available. Call the WECA office at 1-877-444-9322 for more information.

Students can opt to continue their learning, and earn the Advanced Electrician Trainee Program Certificate.

If all the 5 electives below are passed, in addition to the requirements for the Electrician Trainee Program Certificate, a student will be awarded the Advanced Electrician Trainee Program Certificate.

Course	Туре	Order
Mike Holt Limited Energy and Communication Systems	Home-Study DVD	Can be taken anytime after completing the Advanced GET WIRED! 300 series.
Mike Holt Understanding NEC Requirements for Solar Photovoltaic Systems	Home-Study DVD	Can be taken anytime after completing the Advanced GET WIRED! 300 series.
OSHA 30 Construction	Self-Paced Online	Can be taken anytime after completing the Advanced GET WIRED! 300 series.
Troubleshooting Control Circuits	Self-Paced Online	Can be taken anytime after completing BMC 1, 2, and GW 402.
Troubleshooting PLC (Programmable Logic Controller) Circuits	Self-Paced Online	Can be taken anytime after completing BMC 1, 2, GW 402, and Troubleshooting Control Circuits.