## Roadmap to an Electrician Trainee Program

**START: BASIC** 100 Series 101

Fundamentals of electrical theory and introduction to the National Electrical Code (NEC)

103

Introduction to the basic installation of lighting fixtures and branch circuits

104

Continuation of lighting branch circuits & introduction to special purpose outlets

Special systems and single-phase transformer theory in residential electrical applications

Level Up!

204

Transformers, special locations, and single-phase motors

203

Raceway systems, switchboards and panelboards, DC motors, Three-phase alternators & motors

102

202

3-phase electrical systems, conductors & overcurrent protection, grounding, wiring methods, trig and vectors

201

Introduction to alternating current, branch circuits, & feeder/service calculations

**INTERMEDIATE** 200 Series

**ADVANCED** 300 Series

Level Up!

301

Electrical work for commercial construction from the ground up: Part 1. 302

Electrical work for commercial construction from the ground up: Part 2.

303

Planning Commercial Electrical Installations and Electronics for Electricians

304

Assess, Analyze, and
Take Action. A codebased path for errorfree electrical circuit installations.

Level Up!

FINISH:

Congrats, **ET Graduate!**  404

Jobsite Management Skills

403

Electrician Certification Test Preparation

Touse

Perfect Solar Installations

402

Solar Power; plus Residential Service and
Troubleshooting 401

Introduction to Motor Controls

**JOURNEY PREP 400 Series** 

At any point after 401 but before 404, you will take Basic Motor Controls or OSHA 30

Choose

**AND** 

OR

Get hands-on lab 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 lab experience building control circuits for motors. (Must be taken after BMC 1.) BMC 2

**OSHA 30** This 30 hour online OSHA training from WECA partner ClickSafety is an excellent way to receive proper training on important safety and health matters at your work sites.

- 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). You can also choose entirely self-paced online options, or online interactive lab experiences instead of onsite.
- 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.