Path to Electrician Trainee Program Certificate

Basic 100 Series	**101** 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** Introduction to single-phase transformers and service calculations, overcurrent protection, motors, H/VAC and specialty systems, and finding information in the NEC.
Intermediate 200 Series	**201** Branch circuits and feeders, introduction to load calculations, services, magnetic induction, and finding information in the NEC.	**202** Three-phase transformers, basic trigonometry, conductors and overcurrent protection, grounding, wiring methods, and finding information in the NEC.	**203** DC and three-phase motors, wiring methods (raceways, boxes, switches and panel-boards), equipment for general use, and finding information in the NEC.	**204** Single-phase motors, generators, A/C and refrigeration, fire pumps, transformers, special and hazardous locations, and finding information in the NEC.
Advanced 300 Series	**301** Coordinating blueprints and construction documents for electrical installation for commercial construction Part 1	**302** Coordinating blueprints and construction documents for electrical installation for commercial construction Part 2	**303** Coordinating blueprints and construction documents for electrical installation for multiple commercial tenant improvements (TIs).	**304** Assess, analyze, and take action. Size motor circuits, use a code-based path for error-free electrical circuit installations, and work effectively with electrical inspectors to get your job approved.
Journeyman Prep 400 Series	**401** Introduction to Motor Controls	**402** Troubleshooting Electrical and Motor Circuits	**403** Foremanship Skills	**404** Electrician Certification Test Preparation
	Basic Motor Controls 1 (can be taken after 401 and before 404) Get hands-on experience building control circuits for motors as you learn the basics of Motor Controls.		**Basic Motor Controls 2** (can be taken after BMC 1 and before 404) Build on what you learned in Basic Motor Controls, Part 1 by getting further hands-on experience building control circuits for motors.	

The courses listed above must be completed with a “pass” designation, and at least 600 class hours completed, to be awarded the Electrician Trainee Program Certificate. Completing a minimum of 150 hours per series is required to receive an Electrician Trainee Program Certificate. Make-up courses are available. Call the WECA office at 877-444-9322 for more information.

Path to Advanced Electrician Trainee Program Certificate

Complete core requirements for the Electrician Trainee Program Certificate
(above)

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

Course	Type	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
Troubleshooting Control Circuits	Self-Paced Online	Can be taken anytime after completing BMC 1, 2, and GW 402
Programmable Logic Controllers	Self-Paced Online (Bundle)	Can be taken anytime after completing BMC 1, 2, and GW 402
Troubleshooting PLC Circuits	Self-Paced Online	Can be taken anytime after completing BMC 1, 2, and GW 402