

Course(s)

Service Electrician

The courses in the Service Electrician program are designed to teach students the core technical skills, work habits, and abilities required to obtain an entry-level position as an Electrical Technician, Electrical Helper, or Electrical Maintenance Technician.

The estimated time to complete all courses is as follows:

Class	Scheduled Days	Scheduled Times	Scheduled Week Time	Maximum Time
Day Class	Monday-Thursday	8:30am-3:00pm	7.5 Weeks	10.8 weeks (260 hrs.)
Night Class	Monday-Thursday	6:00pm-10:00pm	12.5 Weeks	16.3 weeks (260 hrs.)

The maximum time allowed for completion of the courses is 1.5x the scheduled course time.

Course #	Course Title	Description	Lec Hrs	Lab Hrs	Total Hrs	Credit Hrs
ELEC 101	Fundamentals & OSHA Safety	Electrical theory, Electrical terms, Safety (OSHA practices), NEC Codes. Installing outlets, wiring switches, receptacles, and lights.	10	14	24	0
ELEC 102	Material Handling	Electrical boxes, tools (tool safety), alternative energy, ohms law. Reading, understanding wiring diagrams, material recognition, installing romex, proper terminating.	10	14	24	0
ELEC 103	OSHA Regulations and Electrical Testing	Structure terminology, Lockout/Tagout (LoTo), NEC/Ladder safety. Electrical voltage testing, electrical installation of (J) boxes, sizing.	9	15	24	0
ELEC 104	Wiring	Electric feeders, electric circuit principles, planning circuits, individual branch circuits. Splicing conductors, installing cables, marking and installing branch circuits, terminating conductors.	9	15	24	0
ELEC 105	Conduit and Construction Safety	Types of conduit, construction safety, conduit formulas, conduit fittings. Bending & installing conduit, pulling conductors, bracing and proper strapping.	9	15	24	0
ELEC 106	Code Requirements	Service load calculations, types AFCI & GFCI, how AFCI & GFCI work, code requirements for AFCI & GFCI. Installing GFCI, installing AFCI, outlet spacing, surge protector installation.	10	14	24	0
ELEC 107	Installation	Voltage drop calculations, box fill, types SEP & Sub-panels, breaker types, panel clearances. Mounting SEP, breaker installation, panel wiring, ground rod installation.	9	15	24	0
ELEC 108	Grounding	Grounding conductor sizing panel, bonding ampacities of conductors. Building & installing panels (service), meter box installation, grounding & clearances.	9	15	24	0
CSA 101	Career Service Assistance & Job Search		8	0	8	0
	Totals		83	117	200	0

Satisfactory Progress and Academic Probation

Satisfactory Academic Progress (SAP)

SAP is maintained and measured by the following:

1. Maintaining a minimum of 80% attendance.