



Program of Study (POS): ELECTRICAL CONSTRUCTION (EC)
Classification of Instructional Program (CIP): 46.0399

Topic	Information	Resources
Classroom tests	Residential wiring: 1 to 2 quizzes, weekly and 1 chapter test every 12-15 days on average; electrical theory: weekly quizzes with 1 to 2 tests per nine weeks	www.residentialconstructionacademy.com; www.nccer.org
Midterm and/or final exams	1 st and 3 rd nine weeks tests, midterm, final, and a state assessment test for 12 th grade students, who are eligible completers	www.residentialconstructionacademy.com; www.nocti.org
Industry certification tests and costs*	Available to students who qualify and who complete at least 2 full years of instruction. <i>Pennsylvania Builders Association</i> : 80% or greater on all chapter tests and must pass both written and performance sections of the NOCTI exam (no cost); NCCER	www.pabuilders.org; www.abcwpa.org
Number of books	5: <i>National Electrical Code</i> (NFPA), <i>House Wiring</i> (Fletcher), <i>Electricity I</i> (Kubala), <i>Electrical Principles</i> (Herman), and <i>NCCER Core</i> (NCCER)	
Direct instruction (%)	Up to 80% during the 1 st quarter; 50% during the 2 nd , 3 rd , and 4 th quarters	
Cooperative education	Available to students who qualify, typically individuals in their 3 rd year and in grade 12	Mrs. Lori Warabow, Work-based Learning Coordinator: 412.469.3200,
Homework	Periodically	
Task list	Program of study task list for CIP 46.0399	www.education.pa.gov (search CIP POS task lists)
Prerequisites	Algebra 1 recommended; completion of grade 9; strong interest in electrical trades	
Reading levels	End of grade 9	
Math levels	End of grade 9	
Program requirements and related costs (required and optional)	Work boots (steel toes not required), clean natural fiber pants or 12oz. denim, and a clean T-shirt (no sleeveless shirts); long sleeve fire rated shirts will be provided when necessary; approx. cost of work boots: \$40 - \$70	www.steelcentertech.com Electrical Construction homepage
Dual enrollment	None at this time, though may be available through the sending high schools	Mr. Shannon Hinkle, School Counselor: 412.469.3200, x2517
Articulation agreements	For third-year completers who qualify: Triangle Tech, Rosedale College, Pennsylvania Technical College, and others listed on PDE's website.	PDE: www.education.pa.gov (search SOAR); Mr. S. Hinkle, Counselor: 412.469.3200, x2517
Essential aptitudes and skills	Strong math, problem-solving, and trouble-shooting skills; the ability to do the following: work groups and teams, climb ladders, lift moderately heavy objects, maintain tight grips on high torque power tools, work at ground level and overhead, communicate effectively, and read schematics accurately	
Work environment	Danger of electrical shock, therefore no jewelry may be worn while working in the shop ; dusty; some chemicals; Inclement weather conditions (hot/cold, wet/muddy, etc.) Tasks will be performed while standing or kneeling.	OSHA; Electrical Construction rules, as outlined in the program syllabus; www.steelcentertech.com

*Detailed information may be provided upon acceptance to this program.