



Program Planning Guide

Construction Electrical Technology Certificate (C35140CE)

Program Length: 1 semesters

Program Sites: Chatham Main Campus

Career Pathway Options: Associate in Applied Science Degree in Building Construction; Diploma in Building Construction Technology; Certificate in Construction Electrical Technology

Suggested Course Schedule		Class	Lab	Work	Credits	Notes:
1st Semester (fall)						
BPR 130	Print Reading Construction	3	0	0	3	
CST 111	Construction I	3	3	0	4	
CST 131	OSHA/Safety Certification	2	2	0	3	
ELC 113	Residential Wiring	2	6	0	4	
Total Semester Hours		10	11	0	14	
Total Semester Credit Hours Required for Graduation: 14						

Course Descriptions

BPR 130 Print Reading-Construction

This course covers the interpretation of prints and specifications that are associated with design and construction projects. Topics include interpretation of documents for foundations, floor plans, elevations, and related topics. Upon completion, students should be able to read and interpret construction prints and documents.

CST 111 Construction I

This course covers standard and alternative building methods to include wall framing. Topics include safety and footings, foundations, floor framing systems, and wall framing systems commonly used in the construction industry. Upon completion, students should be able to safely erect all framing necessary to begin roof framing.

CST 131 OSHA/Safety/Certification

This course covers the concepts of work site safety. Topics include OSHA regulations, tool safety, and certifications which relate to the construction industry. Upon completion, students should be able to identify and maintain a safe working environment based on OSHA regulations and maintain proper records and certifications.

ELC 113 Residential Wiring

This course introduces the care/usage of tools and materials used in residential electrical installations and the requirements of the National Electrical Code. Topics include NEC, electrical safety, and electrical print reading; planning, layout, and installation of electrical distribution equipment; lighting; overcurrent protection; conductors; branch circuits; and conduits. Upon completion, students should be able to properly install conduits, wiring, and electrical distribution equipment associated with basic electrical installations.