

Electrical And Electronic Systems Technician

Mode of Delivery	Residential
Credential Awarded	Certificate
Contact Hours	720
Program Quarter Credits	48
Instructional Weeks	36
Total Clock Hours	Including Recognized Homework Hours: 960

Objective

Electronic Systems are an integral part of our fast-paced daily lives in today's digital world. This program encompasses the many facets of working with low-voltage electronic systems in installation, troubleshooting, and repair. Students will be introduced to safety practices, and the various career paths that are available in the low-voltage electronic systems field. The objective of the program is to prepare students to seek entry-level employment in the fields of telecommunication

Description

Students will explore how electronics are applied in the electrical field, while learning about electronic devices commonly found in residential and commercial applications. Through classroom presentations and lab exercises, students will focus on low voltage wiring applications, such as audio, video, security, fire alarm, telephone, computer networking, fiber optics and wireless systems, in accordance with the requirements set forth by the National Electrical Code. Students in the program will develop skills in cable preparation, handling, installation, termination, and testing. Through both classroom presentations and lab exercises, students learn how to plan, wire, install, connect, test, integrate, and troubleshoot the systems of today's integrated systems and networks. Upon program completion, graduates will be awarded a diploma and will possess the skills, as well as the necessary marketable job search techniques and skills, to gain entry-level employment in the Electronic Systems field.

Career Opportunities

The graduate can expect to gain entry-level employment in a career including but not limited to: Alarm Technician, Service Technician, Installation Technician, Fire Alarm Technician, Security Technician, Security Installer, Electronic Security Technician, Fire and Sound Service Technician, Home Security Alarm Installer, Low Voltage Technician, Electronic Technician, Home Theater Installer, Field Service Technician, Satellite Installer, Television Analyzer, Installer, Service Technician.

Plan of Study

Course Code	Name	Contact Hours	Clock Hours	Credits	Quarter Credits
SKW101	Introduction to the Skilled Professions	0	60	4	0
MAT110	Applied Mathematics	0	60	4	0
PDC200	Career Development	0	60	4	0
ELC110	Principles of Electricity	0	60	4	0
ELC115	Low Voltage Principles and Standards	0	60	4	0
ELC120	Electronics for Electricians	0	60	4	0

ELC135	Residential Circuitry and Design	0	60	4	0
ELC140	Residential Construction and Branch Circuits	0	60	4	0
ELC170	Home Integration	0	60	4	0
EST120	Electronic Applications	0	60	4	0
EST125	Data, Voice, and Video Cabling	0	60	4	0
EST145	Monitoring and Surveillance Systems	0	60	4	0

Schedule:

Classes may be scheduled between 7:00 a.m. and 11:00 p.m., Monday through Friday, and 7:00 a.m. and 5:00 p.m. on Saturday. Hours are subject to change.