



ESTW304 Power Quality and Conditioning

The purpose of this course is to instruct technicians on the basics of proper power conditioning for electronic systems, the causes of electrical noise and surges, and essential grounding requirements. Participants will engage in real-life scenarios requiring their examination and resolution. This course also teaches technicians appropriate methods of effective power conditioning and how to handle phase and polarity issues.

Upon completion of this course, participants should be able to:

- Diagnose and alleviate the sources of electrical noise and surges in circuits
- Determine the impact and remedy for power quality problems such as over/under voltages, brownouts, spikes, and sags
- Demonstrate the use of code-approved power conditioning methods
- Implement grounding requirements pertinent to voltage regulators, surge protectors, and uninterruptible power supplies

Recommended pre-requisites: EST102, EST201