

Electrical Systems Technology

This curriculum is designed to provide training for persons interested in installing and maintaining electrical systems found in residential, commercial, and industrial facilities. The Electrical Systems Technology (EST) curriculum is separated into three categories: Solar, Design, and Manufacturing Automation Troubleshooting/Maintenance. The solar degree prepares graduates for a career in installation, electrical code (NEC), maintenance, and solar equipment design on a residential, commercial or larger industry level. The design degree prepares graduates for a career in installing, designing, estimating, or testing residential, commercial, and industrial fields. The electrical manufacturing maintenance degree prepares graduates for a career in industries that require machine electrical repair skills on industrial and manufacturing machinery.

Coursework, most of which is hands-on, includes AC/DC theory, basic wiring practices, programmable logic controllers, industrial motor controls, applications of the National Electric Code, and other subjects, as local needs require.

The program offers various certificates that focus on courses to specialize in solar, residential, industrial, and manufacturing maintenance. Students also may complete certificate programs in HVAC controls and HVAC facilities maintenance, which are integrated within the Air Conditioning, Heating, and Refrigeration program.

For specific information about potential positions and wages in electrical systems technology, visit the Central Piedmont Career Coach website.