

Computer Networking and Electronics Technology: Electronic Training

Award Type: Certificate of Achievement

The electronic training certificate provides the basic knowledge and skills required for entry-level employment in a narrowed range of career occupations, such as preventive maintenance, troubleshooting, diagnosing, and repairing electrical equipment in a wide array of capacities, from musical instruments and communication equipment to submarines and aircraft.

The graduate of the Certificate of Achievement in Computer Networking and Electronics Technology: Electronic Training will:

- Demonstrate a fundamental mastery of knowledge and the use of electronic equipment in electrical, digital and analog circuits.
- Use computer simulation and design software to conduct, analyze and interpret electrical, digital and analog circuits.
- Make calculations involving various electrical laws, formulas, and principles for predicting circuit parameters using algebra and trigonometry required for electronics.
- Use research strategies to acquire information pertinent to the solution of electronic circuits and systems.
- Write technical laboratory reports with conclusions.
- Build and analyze a modern computer system using subsystems.

Program Requirements

A major of 18 units is required for the certificate of achievement.

Required core courses (18 units):

Course Number	Course Title	Units
EL 105	PC Preventive Maintenance and Upgrading	3.0
EL 118	Fundamentals of DC and AC Circuits Analysis	3.0
EL 119	Fundamentals of DC and AC Circuits Analysis Laboratory	2.0
EL 122	Electronic Devices and Circuits	3.0
EL 123	Electronic Devices and Circuits Laboratory	2.0
EL 125	Digital Devices and Circuits	3.0
EL 126	Digital Devices and Circuits Lab	2.0