



Computer Networking

CompTIA Academy Partner Program



COMPUTER NETWORKING consists of instruction in operating systems and networking. This class will provide opportunities for students to test, troubleshoot, and install computer equipment and networks. Instruction will be provided in upgrading computer hardware and installing software in preparation to enter this expanding technical field. Students taking this advanced 2nd year class are provided a foundation in Electronics/Robotics/Computer Repair during their 1st year at Tech.

Pre-requisite

Students must successfully complete the Electronics/ Robotics/ Computer Repair program during their junior year.

Work Environment

This is a service-related job in which technicians troubleshoot, install and configure network devices in homes, industrial sites or offices. A workweek will vary from 37 hours to 40 hours and is generally performed during a daytime shift. Technicians may be required to travel.

Career Opportunities

Junior Network Administrator
Network Field Technician
Network Technician

Advanced Standing Available*

Five Towns College
Island Drafting and Technical Institute
Monroe College
SUNY Canton

*College credits may be earned by meeting the criteria of articulation agreements (see listing in Handbook) Tech has established with SELECT colleges. In addition, check directly with the post-secondary institutions for any additional credits they may offer.

Academic credits integrated:

Tech Math, Tech Phys Sci, Eng 12, CFM, Comp App

CTE Endorsement

Students must meet the academic and attendance criteria for a two-year Wilson Tech Certificate of Completion, be High School diploma eligible, and pass the following exam: CompTIA Network+ Certification Exam.

Student Supplies

No additional supplies are needed for this program.

Average Annual Wage

Salaries are subject to market fluctuations.

For the most current updates on local & national wages go to job search engines on the internet and www.careerzone.ny.gov

Course Outline

- Introduction to Networking
- Networking Fundamentals
- Networking Media
- Cabling LAN and WAN
- IP Addressing
- Routing Fundamentals and Subnetting
- Routing and Protocols
- Access Control Lists
- Switching Concepts
- Switches
- Switches Configuration
- Virtual LANS
- VLAN Trunking Protocol
- Scaling IP Addresses
- WAN Technologies
- VOIP – Voice Over IP
- Introduction to Network Administration
- Network+ Certification