

# CISCO NETWORKING AND SECURITY TECHNOLOGIES - BASIC TECHNICAL CERTIFICATE (BTC)

Explore More About This Program: <https://cwi.edu/program/cisco-networking-and-security-technologies>

## Program Learning Outcomes

Upon successful completion of this program, students will be able to:

- Use network protocol models to explain the layers of communication in data networks for use in network design and troubleshooting.
- Demonstrate an understanding of switching concepts and LAN design to include the use of Virtual LANs with LAN trunking configured by the Spanning Tree Protocol.
- Configure and verify switches for network operation.
- Demonstrate an understanding of routing fundamentals, subnets, and IP addressing schemes.
- Configure and verify routers for network operation.
- Design, planning, implementation, operation, and troubleshooting of wired and wireless networks.