

# Industry Credentials, Concentration Sequences, and Career Clusters

## Computer Networking Hardware Operations I (8542)

### Industry Credentials:

*These apply only to 36-week courses*

- Cisco Certified Cyberops Associate Examination
- Cisco Certified DevNet Associate Examination
- Cisco Certified Networking Associate (CCNA) Examination
- College and Work Readiness Assessment (CWRA+)
- Computer Networking Fundamentals Assessment
- Customer Service Specialist (CSS) Examination
- IT Fundamentals+ (ITF+) Certification Examination
- Network+ Certification Examination
- Professional Communications Certification Examination
- Security+ Certification Examination
- Workplace Readiness Skills for the Commonwealth Examination

### Concentration Sequences:

*A combination of this course and those below, equivalent to two 36-week courses, is a **concentration sequence**. A **program completer** is a student who has met the requirements for a CTE concentration sequence and all other requirements for high school graduation or an approved alternative education program. Students wishing to complete a specialization may take additional courses based on their career pathways.*

- Computer Networking Hardware Operations II
- Computer Networking Hardware Operations III
- Computer Networking Hardware Operations IV

### Career Clusters, Career Pathways, and Occupations:

- Information Technology
  - Information Support and Services
    - Applications Integrator

- Computer User Support Specialist
- Computer Systems Engineer, Architect
- Database Administrator
- Database Analyst
- Information Systems Analyst
- Information Systems Security Developer
- Information Systems Security Manager
- Maintenance Technician
- Network Systems and Data Communication Analyst
- Software Test Engineer
- Systems Analyst
- Technical Writer
- Network Systems
  - Computer Operator
  - Computer Security Specialist
  - Computer Software Engineer
  - Computer User Support Specialist
  - Computer Systems Engineer, Architect
  - Computer and Information Systems Administrator
  - Database Analyst
  - Information Security Analyst
  - Network Architect
  - Network Systems and Data Communication Analyst
  - Network and Computer Systems Administrator
  - Software Test Engineer
  - Systems Analyst
  - Telecommunications Equipment Installer, Repairer
  - Telecommunications Specialist
- Programming and Software Development
  - Computer Software Engineer
  - Information Security Analyst
  - Network Systems and Data Communication Analyst
  - Programmer
  - Project Manager
  - Software Applications Engineer
  - Software Test Engineer
  - Systems Analyst
- Web and Digital Communications

- Computer User Support Specialist
- Computer Systems Engineer, Architect
- Project Manager
- Software Test Engineer
- Systems Analyst