

## Course Overview

This course teaches intermediate knowledge and skills for networking by covering basic concepts and skills needed to build a home office network and a small office network.

## Benefits

By teaching the characteristics and benefits of Cloud and Virtualization technologies, your students develop skills to calculate an IP addressing scheme and configure Cisco devices to create a small network.

- ✓ Teach the characteristics of Virtualization and Cloud services.
- ✓ Explain how Ethernet operates in a switched network.
- ✓ Show how routers use network layer protocols and services.
- ✓ Demonstrate how the TCP protocol guarantees data delivery.
- ✓ Configure a simple computer network using Cisco devices.

## Course Details

**Target Audience:** Secondary or vocational school and college/university students, general audience

**Estimated Time to Completion:** 22 hours

**Prerequisites:** Networking Basics or equivalent knowledge

**Course Delivery:** Instructor-led and Self-paced

**Learning Component Highlights:**

- 12 modules and 17 practice labs
- Interactive activities and quizzes
- 1 final test

**Course Recognitions:** Digital Badge

**Certification Aligned:** This course is part of the Junior Cybersecurity Analyst Career Path and Network Technician Career Path which align to the CCST Cybersecurity and CCST Networking Certifications.

**Recommended Next Course:**  
Network Addressing and Basic Troubleshooting



## Requirements

- ASC Alignment: Recommended
- Instructor Training: Optional
- Physical Equipment: Not Required