

Networking 1

Introduction to Networking



Course Overview

Introduction to Networks covers foundational knowledge and essential skills for Fortune 500 companies to small innovative retailers. Developing a working knowledge of IP addressing schemes, foundational network security to configure routers and switches for local area networks.

Learning Objectives

- Build LANs, Configure routers and switches, and implement IPv4 and IPv6 addressing schemes
- Design, install, and troubleshoot computers and network systems
- Develop critical thinking and problem-solving skills using real equipment and Cisco Packet Tracer

Student Experience

- Through practical experience, develop networks as needed based on customer requirements
- Capable of designing IP addressing schemes and based on real world scenarios

Course Details

- 17 Units
- 43 Lab Simulations
- 24 Hands-on labs
- 12 Interactive activities
- Other course materials and projects
- Earn three (3) college credits





Networking
Academy

CCNA 7 Introduction to Networking



Students will complete 43 virtual lab simulations, 24 hands-on labs, 8 unit exams, and pass the **CCNA 1** final based on the CCNA Introduction to Networking learning objectives. Other course materials, hands-on labs, and projects are used in addition to Cisco Netacad courseware. Total time **120** hours.

Three (3) credit - NHTI Community College - IST154C Cisco Introduction to Networks

Cisco CCNA Introduction to Networking Learning Objectives

Upon completion of this course, students will be able to:

- Configure switches and end devices to provide access to local and remote network resources.
- Explain how physical and data link layer protocols support the operation of Ethernet in a switched network.
- Configure routers to enable end-to-end connectivity between remote devices.
- Create IPv4 and IPv6 addressing schemes and verify network connectivity between devices.
- Explain how the upper layers of the OSI model support network