



Introduction to Cisco Network Technologies

INTRO

4 day

Overview :

This four-day instructor-led course presents important networking fundamentals using the Open Systems Interconnect (OSI) seven layer model concepts; terminology and technologies are explained and illustrated using text and graphics animation. This course includes online assessments that allow learners to measure their progress throughout the learning experience.

Target Audience :

This course is intended for System Engineers, Account Managers and Channel Partners/Resellers who are new to networking concepts and terminology, and/or individuals preparing to take Interconnecting Cisco Network Devices (ICND).

Objectives:

- Describe computer hardware basics, binary and hexadecimal number systems, basic networking terminology and internetworking concepts.
- Identify the major components of a network system, including clients and servers, network interface cards (NICs), internetworking devices, media and topologies.
- Describe the functions, operations and primary components of local-area networks (LANs), wide-area networks (WANs), metropolitan-area networks (MANs), storage-area networks (SANs), content networks (CNs) and virtual private networks (VPNs).
- Describe the major network access methods and outline the key features of each.
- Describe the functions and operations of switching technologies.
- Explain the format and significance of each of the following components to a network system: IP addressing, classes, reserved address space and subnetting. Calculate valid subnetwork addresses and mask values so that user/network requirements are met when given an IP address scheme.

Course Content :

Introduction to networking.

- Computing basics
- Network Fundamentals
- Network Devices
- Network Topologies

Network types.

- LANs
- WANs

Network media.

- Network Media Types
- Cabling the LAN
- Cabling the WAN

Switching fundamentals.

- Shared LAN technology
- LAN Switching
- VLANs

TCP/IP

- Network Layer Protocol Overview
- Transport Layer Protocol Overview
- Transport Layer Functionality

IP addressing and routing.

- IP Network Addressing
- IP Subnetting
- Routing Basics
- Routing Protocols

WAN technologies.

- WAN Technology Basics
- WAN Access Technologies
- Modems

Operating and configuring Cisco IOS devices.

- Operating Cisco IOS Software
- Starting a Switch
- Starting a Router
- Configuring a Router

Managing your network environment.

- Discovering Neighbors on a network
- Router startup and configuration management
- Managing Cisco Devices

Course Prerequisites :

There are no pre-requisites for this course.

Testing and Certification :

- 640-821 INTRO
- 640-801 CCNA – This is a composite exam consisting of both INTRO & ICND

Follow on Courses :

- ICND – Interconnecting Cisco Network Devices

Further Information :

INTRO/

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