

Instructor Led Learning – 5 days

Overview: This course provides the skills and knowledge necessary to prepare for the CompTIA Network+ 2009 Certification Exam. The course certification proves competence in managing, troubleshooting, installing, and configuring a basic network infrastructure.

Breakdown: This course includes four days of training with an exam on the fifth day.

Who Should Attend: Network Technicians Desktop Support Technician PC Support Technician Field Technician Call Center Technician Tier 1 & 2 Support Personnel seeking IAT-1 certification to fulfill the DoD 8570.1 Directive

Objectives: Upon successful completion of this course, students will have skills required to manage, maintain, troubleshoot, install, operate and configure basic network infrastructure, networking technologies design principles including adherence to wiring standard and use of testing tools, network specific security practices, disaster recovery procedures, data storage technology implementation

Prerequisite(s) or equivalent knowledge:

A+ Certification (2009 Objectives)

Prerequisite Comments:

There are no enforced prerequisites, however the recommended prerequisites are the CompTIA A+ certification and nine months of networking experience.

Networking Terminology
Network Building Blocks
Standard Network Models
Physical Network Topologies
Logical Network Topologies
Network Categories

Lesson 2: Network Communications Methods

Transmission Methods
Media Access Methods
Signaling Methods

Lesson 3: Network Data Delivery

Data Addressing and Delivery
Delivery Techniques

Lesson 4: Network Media and Hardware

Bounded Network Media
Unbounded Network Media
Noise Control
Network Connectivity Devices
Wiring Distribution Components

Lesson 5: Network Implementations

The OSI Model
Ethernet Networks
Token Ring Networks
Fiber Distributed Data Interface (FDDI) Networks
Wireless Technologies and Standards

Lesson 6: Networking with TCP/IP

Families of Protocols
The TCP/IP Protocol
IP Address Basics
Custom IP Addresses
The IP Version 6 Protocol
The TCP/IP Protocol Suite

Lesson 7: TCP/IP Services

Lesson 1: Network Theory

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940 CNCP: Network + Certification

Course Outline

IP Address Assignment Methods
Host Name Resolution
TCP/IP Utilities
TCP/IP Upper-Layer Services
TCP/IP Interoperability Services

Lesson 8: Local Area Network Infrastructure

Bridges and Switches
IP Routing
Static IP Routing
Dynamic IP Routing
Control Data Movement with Filters and VLANs

Lesson 9: WAN Infrastructure

WAN Switching Technologies
WAN Transmission Technologies
WAN Connectivity Methods
Voice Over Data Systems

Lesson 10: Network Security

Computer Security Basics
Authentication
Data Encryption
Protect Network Traffic with IP Security (IPsec)
Internet Security
Local Security
Apple Mac OS X
Microsoft Operating Systems
Novell Open Enterprise Server

Lesson 15: Network Management

Monitoring Tools
Network Baselining
Network Optimization

Lesson 16: Network Troubleshooting

Troubleshooting Models
TCP/IP Troubleshooting Utilities
Hardware Troubleshooting Tools
Common Connectivity Issues

Common Threats
Threat Mitigation Techniques
Intrusion Detection and Prevention
Educate Users

Lesson 11: Remote Networking

Remote Network Architectures
Remote Access Networking Implementations
Virtual Private Networking
Remote Control Computing

Lesson 12: Disaster Recovery

Examine Configuration Management Documentation
Plan for Disaster Recovery
Fault Tolerance Methods
Data Backup

Lesson 13: Network Data Storage

Enterprise Data Storage
Network-Attached Storage (NAS)
Storage Area Network (SAN) Implementations
Clustering

Lesson 14: Network Operating Systems

UNIX and Linux Operating Systems

Network + Credentialing

Number of questions: 100

Length of test: 90 minutes

Passing score: 750 on a scale of 100-900

Recommended experience: CompTIA Network+ certification and two years of technical networking experience, with an emphasis on security.

Languages: English, Spanish, German, Japanese, Chinese

Exam codes: SY0-201, JK0-015 certification and nine months of networking experience.