C)NP: Certified Network Principles

Course Content

Course Description:
In this course you will cover concepts and skills needed to plan, install, maintain, and troubleshoot today's networks including wireless and server-based networks! Want to learn about new technologies like virtual networks and SD Networks found in many cloud architectures? We've got you covered, and then we move to physical components, TCP/IP Stack, OSI Model, switches, routers, wireless, and Bluetooth. Lastly, we finish up the C)NP with the knowledge you need to perform the day to day operations of an organization, so you will be able to secure and maintain an entire network!

Course Objectives:
Upon successful completion of this course students will:
• Be able to competently take the C)NP exams well as the Comp TIA Network+ exam
• Have the knowledge to keep a companies' IP network infrastructure secure

Prerequisites:
C)HT / C)OST or equivalent knowledge

Target Audience:
• Everyone
• End Users
• Employees
• Managers

Topics:

Lesson 1: Introduction to Network Fundamentals
• Networking concepts
• Classifying networks
• Network models
• The troubleshooting process

Lesson 2: The Physical Networking Fundamentals
• Connection technologies
• Network devices
• Copper media
• Optical media
• Ethernet standards

Lesson 3: TCP/IP Primer
• IP addressing
• Core protocols
• Network ports and applications

Lesson 4: Connecting Networks with Switches and Routers
- Switching
- Routing

Lesson 5: Wireless Networking
- Wireless networks
- Wireless LAN standards
- Internet connections
- WAN infrastructure

Lesson 6: Security Principles
- Goals and threats
- Digital security
- Transport encryption

Lesson 7: Defending the Network
- Network security components
- Network authentication systems
- Hardening networks

Lesson 8: Network Technology Boom
- Network convergence
- Virtual and cloud systems

Lesson 9: Day to Day Networking
- Network convergence
- Virtual and cloud systems

Lesson 10: Network Planning
- Network policy design
- Network installation
- Maintenance and upgrades

Accreditations:

Register for this class by visiting us at:
www.tcworkshop.com or calling us at 800-639-3535