Cisco Certified Network Associate (CCNA®) validates the ability to install, configure, operate, and troubleshoot medium-size route and switched networks, including implementation and verification of connections to remote sites in a WAN. CCNA curriculum includes basic mitigation of security threats, introduction to wireless networking concepts and terminology, and performance-based skills. The Networking Academy program uses a combination of face-to-face training with online curricula, hands-on lab exercises, realistic network simulations, and an Internet-based assessment tool to deliver the best program ever. By using our innovative networking technology and communications expertise to deliver IT education, we can help you improve communities around the world and provide you with the skills needed to succeed.

The course prepares students to be successful IT professionals in small-to-medium businesses as well as enterprise and service-provider environments. CCNA Exploration is composed of four modules:

**Part 1: Network Fundamentals**
- OSI and TCP/IP Layers
- Addressing the Network - IPv4
- Ethernet
- Planning and Cabling Networks
- Configuring and Testing your Network

**Part 2: Routing Protocols and Concepts**
- Introduction to Routing and Packet Forwarding
- Static Routing
- Dynamic Routing Protocols
- VLSM and CIDR
- RIP v1/v2, EIGRP, OSPF

**Part 3: LAN Switching and Wireless**
- LAN Design
- Basic Switch Concepts and Configuration
- VLANs, VTP, STP
- Inter-VLAN Routing
- Basic Wireless Concepts and Configuration

**Part 4: Accessing the WAN**
- Introduction to WANs
- PPP and Frame Relay
- Network Security, Access Lists
- Teleworker Services
- Network Troubleshooting

The target audience for CCNA includes students with advanced problem solving and analytical skills typically associated with degree programs in engineering, math or science. After completing all four courses of CCNA Exploration, students will be prepared to take the 640-802 Cisco Certified Network Associate (CCNA) certification.

**Konstantinos Papahristofis** is Technical Director in an IT Company which is Cisco Silver Partner. He has at least 15 years hands-on experience with an emphasis on installations, design, and troubleshooting large scale networks for Routing, Switching, Wireless and Security technologies. He is CCNA and CCNP instructor with over 8 years teaching experience on Cisco Academic courses. He has achieved several certifications including CCNP, CCSP, CCDP and Wireless. He holds a Master degree in IT studies and an MBA.