

CISCO TRAINING & CERTIFICATION



Welcome to the Training Brochure, your guide to our training program. We aim to provide high quality and efficient Cisco based training to professionals working in the networking segment of the ICT industry. Training is a vital part of our work, ensuring that you have the knowledge and skills to meet your day to day duties with confidence.

Our training courses are following the Cisco curriculum.

Authorized Training Partner of



Learning Solutions
Information Worker Solutions
Networking Infrastructure Solutions



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The performance and future capability of any company's IT infrastructure depends on the abilities of the people who run your system. Computer Point Nepal (CPN), leading Training Institute, provides basic to advanced training in high-end technology, enhancing people's skills and driving their professional development to benefit every company's prospectus. Some of our specializations are Unified Communications, video, security & VPN, virtualization & data centers, wireless networking, and optical technologies - CPN have the consultants and training capabilities to meet all your demands in each of these specialized fields.

Cisco certifications continue to be some of the most demanding certifications in the information technology (IT) industry. A leader in building and maintaining networks, Cisco continues to set standards for the industry and is widely respected. More and more businesses are utilizing Cisco systems today and demand continues to grow. Although these are some of the more difficult certifications to receive they continue to be some of the most desired.

Cisco certifications are also among the highest paying technical certifications. There is a high demand in the tech industry for employees with Cisco certifications. By becoming Cisco Certified, you demonstrate the unique ability to manage, secure and administer networks run on Cisco equipment.

CCNAX Interconnecting Cisco Networking Devices(Accelerated): Routing and Switching

Duration: 80 hours

Cisco Certified Network Associate (CCNA) Routing and Switching is a certification program for entry-level network engineers that helps maximize your investment in foundational networking knowledge and increase the value of your employer's network. CCNA Routing and Switching is for Network Specialists, Network Administrators, and Network Support Engineers with 1-3 years of experience. The CCNA Routing and Switching validates the ability to install, configure, operate, and troubleshoot medium-size routed and switched networks.

Prerequisites

Basic computer literacy Basic PC operating system navigation skills Basic Internet usage skills Basic IP address knowledge.

Interconnecting Cisco Networking Devices, Part 1 (ICND1) 2.0

ICND1 v2.0 includes major updates and aligns to an updated blueprint. Several topics have been moved from ICND2 into ICND1, while some topics, such as RIP and wireless, have been removed from this course. Course content has been adapted to Cisco IOS Software Release 15 and technically updated. All configuration commands are introduced through examples and supported with lab exercises. All labs are developed with new pod topology and newer networking gear.

Course Outline

- ▶ Mod 1 Building Simple Network
- ▶ Mod 2 Establishing Internet Connectivity
- ▶ Mod 3 Managing Network Device Security
- ▶ Mod 4 Building a Medium-sized Network
- ▶ Mod 5 Introducing IPv6 ICND1 Super Lab

CCENT (Cisco Certified Entry Networking Technician)

Required Exam : Recommended Training

100-101 ICND1 : Interconnecting Cisco Networking Devices Part 1 (ICND1) v2.0

Interconnecting Cisco Networking Devices, Part 2 (ICND2) 2.0

The Interconnecting Cisco Networking Devices, Part 2 (ICND2) v2.0 course provides entry-level network administrators, network support, and help desk technicians with the knowledge and skills needed to install, configure, operate, and troubleshoot a small enterprise network. ICND2 v2.0 is augmented by a virtual classroom presentation, which has additional slides and interactions for instructor use. In addition to the classic hardware-based lab, Cisco will offer a new set of Cisco Learning Lab Classroom Labs. ICND2 v2.0 focuses on understanding redundant topologies, troubleshooting common network issues, configuring EIGRP and multi-area OSPF in both IPv4 and IPv6, understanding Wide Area Network technologies, and becoming familiar with device management and Cisco licensing. The learner will encounter more troubleshooting and more lab time than with the previous version of ICND.

Course Outline

- ▶ Mod 0 Intro
- ▶ Mod 1 Review
- ▶ Mod 2 Implementing Scalable Medium-sized Networks
- ▶ Mod 3 Troubleshooting Basic Connectivity
- ▶ Mod 4 Implementing an EIGRP-based Solution
- ▶ Mod 5 Implementing a Scalable Multiarea Network
OSPF-Based solution
- ▶ Mod 6 Wide Area Networks
- ▶ Mod 7 Network Device Management
- ▶ Mod 8 ICND2 Superlab

Cisco Certified Network Associate (CCNA)

Required Exam : Recommended Training

200-120 CCNA : Interconnecting Cisco Networking Devices: Accelerated (CCNAX) v2.0

Or

100-101 ICND1 : Interconnecting Cisco Networking Devices Part 1 (ICND1) v2.0

200-101 ICND2 : Interconnecting Cisco Networking Devices Part 2 (ICND2) v2.0

CCNA: Security

Duration: 40 hours

Implementing Cisco IOS Network Security (IINS) v2.0 is a 5-day instructor-led course that is presented by Cisco Training Partners to end users and channel partner customers. The content focuses on the design, implementation, and monitoring of a comprehensive security policy, using Cisco IOS security features and technologies as examples. The course covers security controls of Cisco IOS devices as well as a functional introduction to the Cisco Adaptive Security Appliance (ASA). Using instructor-led discussion, lecture, and hands-on lab exercises, this course allows learners to perform basic tasks to secure a small branch office network using Cisco IOS security features available through web-based GUIs (Cisco Configuration Professional) and the CLI on Cisco routers, switches, and ASAs

Prerequisites

Any valid Cisco CCENT, CCNA Routing and Switching, or any CCIE certification can act as a prerequisite.

Course Outline

- ▶ Course Introduction
- ▶ Networking Security Fundamentals
- ▶ Protecting the Network Infrastructure
- ▶ Threat Control and Containment - Secure Connectivity

Required Exam : Recommended Training
640-554 IINS : Implementing Cisco IOS Network Security (IINS)

CCNA: Voice

Duration: 40 hours

The Cisco Certified Network Associate Voice (CCNA Voice) validates associate-level knowledge and skills required to administer a voice network. The Cisco CCNA Voice certification confirms that the required skill set for specialized job roles in voice technologies such as voice technologies administrator, voice engineer, and voice manager. It validates skills in VoIP technologies such as IP PBX, IP telephony, handset, call control, and voicemail solutions.

The CCNA Voice certification assesses skills and knowledge related to the Cisco Unified Communications Manager. It is typically employed by large organizations such as governments, large companies, and colleges. Additionally, the CCNA Voice Certification assesses skills and knowledge related to the Cisco Call Manager Express (CME) and Cisco Unity Express (CUE) solutions typically used by medium and small organizations such as companies with less than 2,000 employees, retail businesses, and small school districts.

Prerequisites

Any valid Cisco CCENT, CCNA Routing and Switching or any Cisco CCIE certification can act as a prerequisite.

Course Outline

This course introduces the architecture, components, functionalities, and features of Cisco Unified Communications solutions and describes how daily job tasks, such as system monitoring, moves, adds, and changes are performed on Cisco Unified Communications Manager, Cisco Unified Communications Manager Express, Cisco Unity Connection, and Cisco Unified Presence.

Required Exam : Recommended Training
640-461 ICOMM : Introducing Cisco Voice and Unified Communications Administration (ICOMM)

CCNA: Wireless

Duration: 40 hours

Cisco Certified Network Associate Wireless (CCNA Wireless) validates associate-level knowledge and skills to configure, implement and support of wireless LANs, specifically those networks using Cisco equipment. With a CCNA Wireless certification, network professionals can support a basic wireless network on a Cisco WLAN in a SMB to enterprise network. The CCNA Wireless curriculum includes information and practice activities to prepare them for configuring, monitoring and troubleshooting basic tasks of a Cisco WLAN in SMB and Enterprise networks.

Prerequisites

Any valid Cisco CCENT, CCNA Routing and Switching or any CCIE certification can act as a prerequisite.

Course Outline

- ▶ Understand WLAN fundamentals
- ▶ Describe basics of spread spectrum technology
- ▶ Describe the impact of various wireless technologies
- ▶ Describe wireless regulatory bodies, standards and certifications
- ▶ Describe WLAN RF principles
- ▶ Describe networking technologies used in wireless
- ▶ Describe wireless topologies
- ▶ Describe 802.11 authentication and encryption methods
- ▶ Describe frame types Install a basic Cisco wireless LAN

Required Exam : Recommended Training
640-722 IUWNE : Implementing Cisco Unified Wireless Networking Essentials (IUWNE)

Cisco Certified Network Professional (CCNP®) certification validates the ability to plan, implement, verify and troubleshoot local and wide-area enterprise networks and work collaboratively with specialists on advanced security, voice, wireless and video solutions. The CCNP certification is appropriate for those with at least one year of networking experience who are ready to advance their skills and work independently on complex network solutions. Those who achieve CCNP have demonstrated the skills required in enterprise roles such as network technician, support engineer, systems engineer or network engineer.

Prerequisites

Valid Cisco CCNA Routing and Switching, or any CCIE certification can act as a prerequisite.

642-902 ROUTE: Implementing Cisco IP Routing

ROUTE v1.0 – Implementing Cisco IP Routing – is a five-day instructor-led course in which network professionals learn to plan, configure, and verify the implementation of complex enterprise LAN and WAN routing solutions, using a range of routing protocols. ROUTE v1.0 also covers configuration of secure routing solutions to support branch offices and mobile workers. The course includes more than seven hours of e-learning lessons and demos that students can absorb at their own pace.

Course Outline

- ▶ Module 1: Planning Routing Services
- ▶ Module 2: Implementing an EIGRP based Solution
- ▶ Module 3: Implementing a Scalable Multiarea Network OSPF based Solution
- ▶ Module 4: Implement an IPv4 based redistribution solution
- ▶ Module 5: Implement Path Control
- ▶ Module 6: Connecting an Enterprise Network to ISP Networks
- ▶ E-Learning ROUTE-01 of 2: Implement Path Control, Implementing IPv6
- ▶ E-Learning ROUTE-02 of 2: Implementing Routing Facilities for Branch Offices and Mobile Workers

642-813 SWITCH: Implementing Cisco IP Switched Networks

SWITCH v1.0 – Implementing Cisco IP Switched Networks – is a five-day instructor-led course in which network professionals will learn to plan, configure, and verify the implementation of complex enterprise switching solutions, using Cisco Enterprise Campus Architecture. SWITCH v1.0 also covers secure integration of VLANs, WLANs, voice, and video into campus networks.

Course Outline

- ▶ Module 1: Analyzing Campus Network Designs
- ▶ Module 2: Implementing VLANs in Campus Networks
- ▶ Module 3: Implementing Spanning Tree
- ▶ Module 4: Implementing Inter-VLAN Routing
- ▶ Module 5: Implementing First Hop Redundancy in a Campus Environment
- ▶ Module 6: Implementing a Highly Available Network
- ▶ Module 7: Minimizing Service Loss and Data Theft in a Campus Network
- ▶ Module 8: Integrating Wireless LANs into a Campus Network
- ▶ Module 9: Accommodating Voice and Video in Campus Networks

642-832 TSHOOT: Troubleshooting and Maintaining Cisco IP Networks

TSHOOT v1.0 – Troubleshooting and Maintaining Cisco IP Networks – is a five-day instructor-led course in which network professionals learn to (1) plan and perform regular maintenance on complex enterprise routed and switched networks, and (2) use technology-based practices and a systematic ITIL-compliant approach to perform network troubleshooting. Extensive labs provide hands-on learning and reinforce troubleshooting skills. The course includes more than nine hours of e-learning lessons and demos that students can absorb at their own pace.

Course Outline

- ▶ Module 1: Planning Maintenance for Complex Networks
- ▶ Module 2: Selecting Maintenance and Troubleshooting Tools and Applications
- ▶ Module 3: Planning Troubleshooting Processes for Complex Enterprise Networks
- ▶ Module 4: Maintaining and Troubleshooting Campus Switching-Based Problems
- ▶ Module 5: Maintaining and Troubleshooting Routing Based Solutions
- ▶ Module 6: Maintaining and Troubleshooting Network Security Solutions
- ▶ Module 7: Maintaining and Troubleshooting Integrated, Complex Enterprise Networks
- ▶ E-Learning TSHOOT-01: Troubleshooting Performance Problems on Switches
- ▶ E-Learning TSHOOT-02: Troubleshooting Wireless Connectivity
- ▶ E-Learning TSHOOT-03: Troubleshooting Voice over IP
- ▶ E-Learning TSHOOT-04: Troubleshooting Video
- ▶ E-Learning TSHOOT-05: Troubleshooting Multicast
- ▶ E-Learning TSHOOT-06: Troubleshooting NAT and PAT
- ▶ E-Learning TSHOOT-07: Troubleshooting DHCP
- ▶ E-Learning TSHOOT-08: Troubleshooting IPv6, OSPFv3, and RIPv3

Cisco Certified Network Professional (CCNP)

Required Exam : Recommended Training

642-902 ROUTE : Implementing Cisco IP Routing (ROUTE)

642-813 SWITCH : Implementing Cisco IP Switched Networks (SWITCH)

642-832 TSHOOT : Troubleshooting and Maintaining Cisco IP Networks (TSHOOT)