Delmon Academy

Cisco Certified Network Associate (CCNA)



The Cisco Certified Network Associate (CCNA) certification validates essential networking, security, and automation skills for IT careers. It covers networking fundamentals, IP services, security basics, and automation concepts. CCNA proves your ability to configure and troubleshoot networks, secure devices, and understand modern network management. It provides a strong foundation for any IT role and is the ideal starting point for building or supporting IT infrastructure.

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Content outline:

1. Network Fundamentals
2. Network Access
3. IP Connectivity
4. IP Services
5. Security Fundamentals
6. Automation and Programmability

Certificate learning outcomes:

1.1 Explain the role and function of network components
1.2 Describe characteristics of network topology architectures
1.3 Compare physical interface and cabling types
1.4 Identify interface and cable issues (collisions, errors, mismatch duplex, and/or speed)
1.5 Compare TCP to UDP
2.1 Configure and verify VLANs (normal range) spanning multiple switches
2.2 Configure and verify interswitch connectivity
2.3 Configure and verify Layer 2 discovery protocols (Cisco Discovery Protocol and LLDP)
2.4 Configure and verify (Layer 2/Layer 3) EtherChannel (LACP)
2.5 Interpret basic operations of Rapid PVST+ Spanning Tree Protocol
3.2 Determine how a router makes a forwarding decision by default
3.4 Configure and verify single area OSPFv2
4.1 Configure and verify inside source NAT using static and pools
4.2 Configure and verify NTP operating in a client and server mode
4.3 Explain the role of DHCP and DNS within the network
4.4 Explain the function of SNMP in network operations
5.1 Define key security concepts (threats, vulnerabilities, exploits, and mitigation techniques)
5.2 Describe security program elements (user awareness, training, and physical access control)
5.5 Describe IPsec remote access and site-to-site VPNs
6.1 Explain how automation impacts network management
6.4 Explain AI (generative and predictive) and machine learning in network operations
6.5 Describe characteristics of REST-based APIs (authentication types, CRUD, HTTP verbs, and data encoding)

Assessment

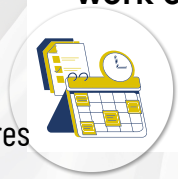
Online exam, 120-minute exam. Pass or Fail – Minimum (700/1000)

CERTIFICATION

Upon successful completion, Cisco Certified Network Associate (CCNA).

REQUIREMENTS

This qualification is for anyone planning to work or already Working.



Total hours: 75

QUALIFICATION STRUCTURE

To be awarded the Cisco Certified Network Associate (CCNA), learners are required to successfully pass the online exam.

TRAINING METHODOLOGY

This includes lectures, tutorials and practical's, as well as supervised study in, for example, learning centers and workshops. Exam Tutorial Videos. Working in Groups- Methods of discussion- Cooperative learning style Internal and external training activities- Higher thinking skills. Great career path with a lot of practice questions, lab scenarios and real-life cybersecurity study case.

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