



Get Certified

# NetTech India



**3 Months Course**

**Advance Certification  
Course in**

# **ETHICAL HACKING**

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# CERTIFICATIONS OPTIONS AVAILABLE





# ABOUT US

**NetTech India Training Institute** offers a high-quality learning experience in the field of IT training to train students on brand new technologies and train them to deliver the desired results with commercially relevant and re-organized technical skills.

The probability of achieving your dream job will keep on increasing day by day once you complete a course in **NetTech India**. We also focus on improving soft skills in terms of communication, leadership, teamwork, external appearance, and attitude which helps everyone to be professional in all the aspects of their career.



**25%**  
Theory



**75%**  
Practicals



# **ETHICAL HACKING**

- **CCNA**
  - **CEHv12**
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# ABOUT CCNA 200-301 CERTIFICATION

**NetTech India** CCNA course will help you to improve yourself about networking basics, switching & routing technologies, IPv4 and IPv6. You will learn, how to configure a small network with CISCO switches and routers. This CCNA course in Thane will help you to become a professional. If you are a beginner at networking technologies, our CCNA certification program is great for you! You will get the certification easily with this CCNA course and you can begin your career in the networking industry.





# **BENEFITS OF** **CCNA & CEHv12** **CERTIFICATION**

- Career Growth - Higher Pay & Position
- Encourages professional Development
- Enriches self-image and Reputation
- Enhances professional Credibility.
- Abundant Job Opportunities
- Used In Many Industries
- Global Recognition
- Secure and Flexible
- 50+ Case Studies
- 50+ Projects



# CCNA CONTENT

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## 1 Network Fundamentals

1. Explain the role and function of network components
  - a. Routers
  - b. L2 and L3 switches
  - c. Next-generation firewalls and IPS
  - d. Access points
  - e. Controllers (Cisco DNA Center and WLC)
  - f. Endpoints
  - g. Servers
2. Describe characteristics of network topology architectures
  - a. 2 tier
  - b. 3 tier
  - c. Spine-leaf
  - d. WAN
  - e. Small office/home office (SOHO)
  - f. On-premises and cloud

3. Compare physical interface and cabling types
  - a. Single-mode fiber, multimode fiber, copper
  - b. Connections (Ethernet shared media and point-to-point)
  - c. Concepts of PoE
4. Identify interface and cable issues (collisions, errors, mismatch duplex, and/or speed)
5. Compare TCP to UDP
6. Configure and verify IPv4 addressing and subnetting
7. Describe the need for private IPv4 addressing
8. Configure and verify IPv6 addressing and prefix
9. Compare IPv6 address types
  - a. Global unicast
  - b. Unique local
  - c. Link-local
  - d. Anycast
  - e. Multicast
  - f. Modified EUI 64
10. Verify IP parameters for Client OS (Windows, Mac OS, Linux)



11. Describe wireless principles
  - a. Nonoverlapping Wi-Fi channels
  - b. SSID
  - c. RF
  - d. Encryption
12. Explain virtualization fundamentals (virtual machines)
- 1.12 Explain virtualization fundamentals (virtual machines)

## **2 Network Access**

1. Configure and verify VLANs (normal range) spanning multiple switches
  - a. Access ports (data and voice)
  - b. Default VLAN
  - c. Connectivity
2. Configure and verify interswitch connectivity
  - a. Trunk ports
  - 2.2.b 802.1Q
  - 2.2.c Native VLAN
- 2.3 Configure and verify Layer 2 discovery protocols  
(Cisco Discovery Protocol and LLDP)

4. Configure and verify (Layer 2/Layer 3) EtherChannel (LACP)
5. Describe the need for and basic operations of Rapid PVST+ Spanning Tree Protocol and identify  
basic operations
  - a. Root port, root bridge (primary/secondary), and other port names
  - b. Port states (forwarding/blocking)
  - c. PortFast benefits
6. Compare Cisco Wireless Architectures and AP modes
7. Describe physical infrastructure connections of WLAN components (AP,WLC, access/trunk ports, and LAG)
8. Describe AP and WLC management access connections (Telnet, SSH, HTTP,HTTPS, console, and TACACS+/RADIUS)
9. Configure the components of a wireless LAN access for client connectivity using GUI only such as WLAN creation, security settings, QoS profiles, and advanced WLAN settings

### 3 IP Connectivity

1. Interpret the components of the routing table
  - a. Routing protocol code
  - b. Prefix
  - c. Network mask
  - d. Next hop
  - e. Administrative distance
  - f. Metric
  - g. Gateway of last resort
2. Determine how a router makes a forwarding decision by default
  - a. Longest match
  - b. Administrative distance
  - c. Routing protocol metric
3. Configure and verify IPv4 and IPv6 static routing
  - a. Default route
  - b. Network route
  - c. Host route
  - d. Floating static

4. Configure and verify single area OSPFv2
  - a. Neighbor adjacencies
  - b. Point-to-point
  - c. Broadcast (DR/BDR selection)
  - d. Router ID
5. Describe the purpose of first hop redundancy protocol

### **3 IP Services**

1. Configure and verify inside source NAT using static and pools
2. Configure and verify NTP operating in a client and server mode
3. Explain the role of DHCP and DNS within the network
4. Explain the function of SNMP in network operations
5. Describe the use of syslog features including facilities and levels
6. Configure and verify DHCP client and relay
7. Explain the forwarding per-hop behavior (PHB) for QoS such as classification, marking, queuing, congestion, policing, shaping
8. Configure network devices for remote access using SSH
9. Describe the capabilities and function of TFTP/FTP in the network

## 5 Security Fundamentals

1. Define key security concepts (threats, vulnerabilities, exploits, and mitigation techniques)
2. Describe security program elements (user awareness, training, and physical access control)
3. Configure device access control using local passwords
4. Describe security password policies elements, such as management, complexity, and password alternatives (multifactor authentication, certificates, and biometrics)
5. Describe remote access and site-to-site VPNs
6. Configure and verify access control lists
7. Configure Layer 2 security features (DHCP snooping, dynamic ARP inspection, and port security)
8. Differentiate authentication, authorization, and accounting concepts
9. Describe wireless security protocols (WPA, WPA2, and WPA3)
10. Configure WLAN using WPA2 PSK using the GUI

## 6 Automation and Programmability

1. Explain how automation impacts network management
2. Compare traditional networks with controller-based networking
3. Describe controller-based and software defined architectures (overlay, underlay, and fabric)
  - a. Separation of control plane and data plane
  - b. North-bound and south-bound APIs
4. Compare traditional campus device management with Cisco DNA Center enabled device management
5. Describe characteristics of REST-based APIs (CRUD, HTTP verbs, and data encoding)
6. Recognize the capabilities of configuration management mechanisms Puppet, Chef, and Ansible
7. Interpret JSON encoded data

**And Many More...**



# **CEHv12** **CONTENT**

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- Introduction
- Basic Networking
- Lab Setup
- Kali Linux
- Footprinting & Reconnaissance
- Scanning Networks
- Enumeration
- System Hacking
- Vulnerability Analysis
- Malware threats
- Sniffing
- Social Engineering
- Denial-of-service
- Session Hijacking
- Hacking Web servers
- Hacking web Application
- SQL Injection
- Hacking Wireless Networks

- Hacking Mobile Platforms
- Identity Theft
- Cryptography
- Cloud Computing
- Evading IDS,IPS, firewalls & honey pot
- Os Hardening & Auditing
- Metasploit
- IoT for hacking & OT platforms
- Password Cracking
- Creating Backdoors
- Report Writing

# WHO CAN LEARN ?

- Anyone who wants to prepare for CCNA 200-301 exam and for CEHv12
- Anyone who needs to build a career in networking and Ethical Hacking industry



# **CAREER OPPORTUNITIES**

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- System Security Admin
- IT Security Engineer
- Ethical Hacker
- Network Admin
- Network Associate
- Security Associate

**And Many More...**



# OUR RECRUITERS

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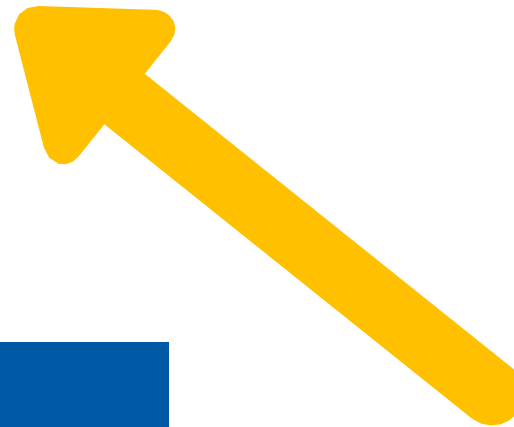
*and Many More....*

# **PROCESS FOR SUCCESS**

**GET PLACED**

**GET TRAINED**

**ENROLL**





# **FACILITIES OFFERED**

- Practical Training on Live Projects
- 100% Placement Guarantee
- Interview Preparation
- Global Certification
- Fully functional labs
- Online / Offline Training
- Study Materials
- Expert Level Industry Recognized Training





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