

<https://www.ituonline.com/>

Certified Ethical Hacker (CEH) Version 11 Part 1: Foundations (ECC 312-50)

Module 1 - CEH v11 Foundations Course Introduction

- 1.1 About this course: CEH Foundations
- 1.2 About the Instructor

Module 2 - CEH v11 Introduction To Networking

- 2.1 Networking Overview
- 2.2 Network Scope
- 2.3 Network Addressing
- 2.4 Activity - Examining Network Addressing

Module 3 - CEH v11 Lan Components

- 3.1 Protocols, Ports, Sockets
- 3.2 Network Topologies
- 3.3 LAN Devices
- 3.4 LAN Devices Part 2
- 3.5 VLANs
- 3.6 Activity - Examining Ports and Sockets
- 3.7 Activity - Examining Switches and VLANs

Module 4 - CEH v11 Routing and Network Access

- 4.1 Routers
- 4.2 Layer 3 Switches
- 4.3 Modems and Remote Access
- 4.4 Firewalls and Proxies
- 4.5 Activity - Examining Routing
- 4.6 Activity - Examining VLAN Routing
- 4.7 Activity - Examining Firewall Rules

Module 5 - CEH v11 Intrusion Detection and Network Layers

- 5.1 IDS and IPS
- 5.2 OSI Model
- 5.3 TCP-IP
- 5.4 Activity - Examining Network Layers

Module 6 - CEH v11 Networking Protocols and Addressing

- 6.1 Layer 4 Protocols
- 6.2 Layer 3 Protocols
- 6.3 Layer 2 Protocols
- 6.4 IP Addressing
- 6.5 Subnetting
- 6.6 DHCP
- 6.7 Activity - Examining TCP
- 6.8 Activity - Examining UDP
- 6.9 Activity - Examining IP
- 6.10 Activity - Examining ICMP
- 6.11 Activity - Examining ARP

Module 7 - CEH v11 Network Services

- 7.1 DNS
- 7.2 DNS Records
- 7.3 NTP
- 7.4 Authentication
- 7.5 Biometrics
- 7.6 Activity - Examining DNS
- 7.7 Activity - Examining DNS Records

Module 8 - CEH v11 Access Control

- 8.1 Local Authentication
- 8.2 Directory Service Authentication
- 8.3 Extending Authentication
- 8.4 Authorization
- 8.5 Activity - Testing Access Control

Module 9 - CEH v11 Intro to Linux

- 9.1 Linux Overview
- 9.2 Linux File System
- 9.3 Linux Core Commands
- 9.4 Linux Search and Read Commands
- 9.5 Activity - Exploring Linux
- 9.6 Activity - Using Linux Core Commands
- 9.7 Activity - Using Linux Search Commands
- 9.8 Activity - Using Linux Read Commands

Module 10 - CEH v11 Configuring Linux

- 10.1 Linux File Permissions
- 10.2 Linux Special Permissions
- 10.3 Linux Configuration
- 10.4 Linux Packages
- 10.5 Linux User Management

Module 11 - CEH v11 Practicing Linux Configuration

- 11.1 Activity - Setting Linux Permissions
- 11.2 Activity - Setting Linux Special Permissions
- 11.3 Activity - Managing Packages in Kali Linux
- 11.4 Activity - Managing Users and Groups in Linux

Module 12 - CEH v11 Managing Linux

- 12.1 Linux Job Scheduling
- 12.2 Linux File, Directory, and Download Commands
- 12.3 Linux System Commands
- 12.4 Linux Network Management
- 12.5 Linux Firewall

Module 13 - CEH v11 Practicing Linux Management

- 13.1 Activity - Scheduling Tasks in Linux
- 13.2 Activity - Using Linux File, Directory, and Download Commands
- 13.3 Activity - Using Linux Edit and Archive Commands
- 13.4 Activity - Compiling Malicious Code
- 13.5 Activity - Using Linux Process and System Commands
- 13.6 Activity - Using Linux Disk, Hardware, and Network Commands

Module 14 - CEH v11 Intro to Windows

- 14.1 Windows Overview
- 14.2 Windows Registry
- 14.3 Windows Security

Module 15 - CEH v11 Windows Commands

- 15.1 Windows Commands
- 15.2 Windows Admin Commands
- 15.3 Windows Network Commands
- 15.4 Windows Run Line Commands
- 15.5 Windows PowerShell

Module 16 - CEH v11 Practicing Windows Commands

- 16.1 Activity - Using Windows Built-in Commands
- 16.2 Activity - Using Windows Task Commands
- 16.3 Activity - Using Windows Admin Commands
- 16.4 Activity - Using Windows Network Commands
- 16.5 Activity - Using Windows PowerShell
- 16.6 Networking and OS Penetration Testing
- 16.7 Review

Module 17 - CEH v11 Intro to Hacking

- 17.1 Information Security Overview
- 17.2 Hacking Concepts
- 17.3 Ethical Hacking Concepts

- 17.4 Penetration Testing
- 17.5 Penetration Testing Part 2
- 17.6 Activity - Performing a Static Code Review

Module 18 - CEH v11 Information Security

- 18.1 Cyber Kill Chain Concepts
- 18.2 Activity - Performing Weaponization
- 18.3 Information Security
- 18.4 Security Policies
- 18.5 Security Controls
- 18.6 Access Control

Module 19 - CEH v11 Protecting Data

- 19.1 Data Protection
- 19.2 Backup Sites
- 19.3 Vulnerability Management
- 19.4 SIEM
- 19.5 Risks

Module 20 - CEH v11 Managing Risk

- 20.1 Risk Management
- 20.2 Incident Handling
- 20.3 Information Security Laws and Standards
- 20.4 Activity - Assessing Risk
- 20.5 Ethical Hacking Penetration Testing
- 20.6 Review
- 20.7 Conclusion