

COURSE OUTLINE

CompTIA PenTest+ (PT0-002)

Duration: 5 Days

Prerequisites:

To ensure your success in this course, you should have basic IT skills comprising three to four years of hands-on experience working in a performing penetration tests, vulnerability assessments, and code analysis. CompTIA Network+ certification, Security+ certification, or the equivalent knowledge is strongly recommended.

Course Description:

This course can benefit you in two ways. If you intend to pass the CompTIA PenTest+ (Exam PT0-002) certification examination, this course can be a significant part of your preparation. But certification is not the only key to professional success in the field of server management. Today's job market demands individuals have demonstrable skills, and the information and activities in this course can help you build your penetration testing skill set so that you can confidently perform your duties in a security consultant or penetration tester job role.

Course Objectives:

On course completion, you will be able to do the following:

- Scope organizational/customer requirements.
- Define the rules of engagement.
- Footprint and gather intelligence.
- Evaluate human and physical vulnerabilities.
- Prepare the vulnerability scan.
- Scan logical vulnerabilities.
- Analyze scan results.
- Avoid detection and cover tracks.
- Exploit the LAN and cloud.
- Test wireless networks.
- Target mobile devices.
- Attack specialized systems.
- Perform web application-based attacks.
- Perform system hacking.
- Script and software development.
- Leverage the attack: pivot and penetrate.
- Communicate during the PenTesting process.
- Summarize report components.
- Recommend remediation.
- Perform post-report delivery activities.

Intended Audience:

The Official CompTIA PenTest+ Guide (Exam PT0-002) is the primary course you will need to take if your job responsibilities include planning and scoping, information gathering and vulnerability scanning, attacks and exploits, reporting and communication, and tools and code analysis. You can take this course to prepare for the CompTIA PenTest+ (Exam PT0-002) certification examination.

Course Outlines:

Lesson 1: Scoping Organizational/Customer Requirements

- Topic 1A: Define Organizational PenTesting
- Topic 1B: Acknowledge Compliance Requirements
- Topic 1C: Compare Standards and Methodologies
- Topic 1D: Describe Ways to Maintain Professionalism

Lesson 2: Defining the Rules of Engagement

- Topic 2A: Assess Environmental Considerations
- Topic 2B: Outline the Rules of Engagement
- Topic 2C: Prepare Legal Documents

Lesson 3: Footprinting and Gathering Intelligence

- Topic 3A: Discover the Target
- Topic 3B: Gather Essential Data
- Topic 3C: Compile Website Information
- Topic 3D: Discover Open-Source Intelligence Tools

Lesson 4: Evaluating Human and Physical Vulnerabilities

- Topic 4A: Exploit the Human Psyche
- Topic 4B: Summarize Physical Attacks
- Topic 4C: Use Tools to Launch a Social Engineering Attack

Lesson 5: Preparing the Vulnerability Scan

- Topic 5A: Plan the Vulnerability Scan
- Topic 5B: Detect Defenses
- Topic 5C: Utilize Scanning Tools

Lesson 6: Scanning Logical Vulnerabilities

- Topic 6A: Scan Identified Targets
- Topic 6B: Evaluate Network Traffic
- Topic 6C: Uncover Wireless Assets

Lesson 7: Analyzing Scanning Results

- Topic 7A: Discover Nmap and NSE
- Topic 7B: Enumerate Network Hosts
- Topic 7C: Analyze Output from Scans

Lesson 8: Avoiding Detection and Covering Tracks

- Topic 8A: Evade Detection
- Topic 8B: Use Steganography to Hide and Conceal
- Topic 8C: Establish a Covert Channel

Lesson 9: Exploiting the LAN and Cloud

- Topic 9A: Enumerating Hosts
- Topic 9B: Attack LAN Protocols
- Topic 9C: Compare Exploit Tools
- Topic 9D: Discover Cloud Vulnerabilities
- Topic 9E: Explore Cloud-Based Attacks

Lesson 10: Testing Wireless Networks

- Topic 10A: Discover Wireless Attacks
- Topic 10B: Explore Wireless Tools

Lesson 11: Targeting Mobile Devices

- Topic 11A: Recognize Mobile Device Vulnerabilities
- Topic 11B: Launch Attacks on Mobile Devices
- Topic 11C: Outline Assessment Tools for Mobile Devices

Lesson 12: Attacking Specialized Systems

- Topic 12A: Identify Attacks on the IoT
- Topic 12B: Recognize Other Vulnerable Systems
- Topic 12C: Explain Virtual Machine Vulnerabilities

Lesson 13: Web Application-Based Attacks

- Topic 13A: Recognize Web Vulnerabilities
- Topic 13B: Launch Session Attacks
- Topic 13C: Plan Injection Attacks
- Topic 13D: Identify Tools

Lesson 14: Performing System Hacking

- Topic 14A: System Hacking
- Topic 14B: Use Remote Access Tools
- Topic 14C: Analyze Exploit Code

Lesson 15: Scripting and Software Development

- Topic 15A: Analyzing Scripts and Code Samples
- Topic 15B: Create Logic Constructs
- Topic 15C: Automate Penetration Testing

Lesson 16: Leveraging the Attack: Pivot and Penetrate

- Topic 16A: Test Credentials
- Topic 16B: Move Throughout the System
- Topic 16C: Maintain Persistence

Lesson 17: Communicating During the PenTesting Process

- Topic 17A: Define the Communication Path
- Topic 17B: Communication Triggers
- Topic 17C: Use Built-In Tools for Reporting

Lesson 18: Summarizing Report Components

- Topic 18A: Identify Report Audience
- Topic 18B: List Report Contents
- Topic 18C: Define Best Practices for Reports

Lesson 19: Recommending Remediation

- Topic 19A: Employ Technical Controls
- Topic 19B: Administrative and Operational Controls
- Topic 19C: Physical Controls

Lesson 20: Performing Post-Report Delivery Activities

- Topic 20A: Post-Engagement Cleanup
- Topic 20B: Follow-Up Actions

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