



Train. Employ. Empower.

## PenTest+

Price  
**\$2,295.00**

Duration  
**5 Daytime Classes  
or  
10 Evening Classes**

Delivery Methods  
**Virtual, Private  
Group,**

### CAREER SKILLS+™

Security remains one of the hottest topics in IT and other industries. It seems that each week brings news of some new breach of privacy or security. As organizations scramble to protect themselves and their customers, the ability to conduct penetration testing is an emerging skill set that is becoming ever more valuable to the organizations seeking protection, and ever more lucrative for those who possess these skills. In this course, you will be introduced to some general concepts and methodologies related to pen testing, and you will work your way through a simulated pen test for a fictitious company.

This course will also prepare you for the CompTIA PenTest+ certification exam PT0-002.

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### Who Should Attend

This course is designed for IT professionals who want to develop penetration testing skills to enable them to identify information-system vulnerabilities and effective remediation techniques for those vulnerabilities. Target students who also need to offer practical recommendations for action to properly protect

information systems and their contents will derive those skills from this course. This course is also designed for individuals who are preparing to take the CompTIA PenTest+ certification exam PT0-002, or who plan to use PenTest+ as the foundation for more advanced security certifications or career roles. Individuals seeking this certification should have three to four years of hands-on experience performing penetration tests, vulnerability assessments, and vulnerability management.

## Course Prerequisites

There are no prerequisites for this course.

## Course Objectives

On course completion, participants will be able to:

- Plan and scope penetration tests.
- Conduct passive reconnaissance.
- Perform non-technical tests to gather information.
- Conductive active reconnaissance.
- Analyze vulnerabilities.
- Penetrate networks.
- Exploit host-based vulnerabilities.
- Test applications.
- Complete post-exploit tasks.
- Analyze and report pen test results.

## Agenda

### **1 - Scoping Organizational/Customer Requirements**

- Define Organizational PenTesting
- Acknowledge Compliance Requirements
- Compare Standards and Methodologies
- Describe Ways to Maintain Professionalism

### **2 - Defining the Rules of Engagement**

- Assess Environmental Considerations
- Outline the Rules of Engagement
- Prepare Legal Documents

### **3 - Footprinting and Gathering Intelligence**

- Discover the Target
- Gather Essential Data
- Compile Website Information
- Discover Open-Source Intelligence Tool

### **4 - Evaluating Human and Physical Vulnerabilities**

- Exploit the Human Psyche



Summarize Physical Attacks  
Use Tools to Launch a Social Engineering Attack  
**5 - Preparing the Vulnerability Scan**  
Plan the Vulnerability Scan  
Detect Defenses  
Utilize Scanning Tools  
**6 - Scanning Logical Vulnerabilities**  
Scan Identified Targets  
Evaluate Network Traffic  
Uncover Wireless Assets  
**7 - Analyzing Scanning Results**  
Discover Nmap and NSE  
Enumerate Network Hosts  
Analyze Output from Scans  
**8 - Avoiding Detection and Covering Tracks**  
Evade Detection  
Use Steganography to Hide and Conceal  
Establish a Covert Channel  
**9 - Exploiting the LAN and Cloud**  
Enumerating Hosts  
Attack LAN Protocols  
Compare Exploit Tools  
Discover Cloud Vulnerabilities  
Explore Cloud-Based Attacks  
**10 - Testing Wireless Networks**  
Discover Wireless Attacks  
Explore Wireless Tools  
**11 - Targeting Mobile Devices**  
Recognize Mobile Device Vulnerabilities  
Launch Attacks on Mobile Devices  
Outline Assessment Tools for Mobile Devices  
**12 - Attacking Specialized Systems**  
Identify Attacks on the IoT  
Recognize Other Vulnerable Systems  
Explain Virtual Machine Vulnerabilities  
**13 - Web Application-Based Attacks**  
Recognize Web Vulnerabilities  
Launch Session Attacks  
Plan Injection Attacks  
Identify Tools  
**14 - Performing System Hacking**  
System Hacking  
Use Remote Access Tools  
Analyze Exploit Code  
**15 - Scripting and Software Development**  
Analyzing Scripts and Code Samples  
Create Logic Constructs  
Automate Penetration Testing  
**16 - Leveraging the Attack: Pivot and Penetrate**



Test Credentials

Move Throughout the System

Maintain Persistence

**17 - Communicating During the PenTesting Process**

Define the Communication Path

Communication Triggers

Use Built-In Tools for Reporting

**18 - Summarizing Report Components**

Identify Report Audience

List Report Contents

Define Best Practices for Reports

**19 - Recommending Remediation**

Employ Technical Controls

Administrative and Operational Controls

Physical Controls

**20 - Performing Post-Report Delivery Activities**

Post-Engagement Cleanup

Follow-Up Actions