

CompTIA PenTest+ Syllabus

Lesson 1: Scoping Organizational/Customer Requirements **2 Hours - 4 Topics**

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

Lesson 2: Defining the Rules of Engagement **2 Hours - 3 Topics**

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

Lesson 3: Footprinting and Gathering Intelligence **2 Hours - 4 Topics**

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

Lesson 4: Evaluating Human and Physical Vulnerabilities **2 Hours - 3 Topics**

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

Lesson 5: Preparing the Vulnerability Scan **2 Hours - 3 Topics**

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

Lesson 6: Scanning Logical Vulnerabilities **2 Hours - 3 Topics**

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

Lesson 7: Analyzing Scanning Results **2 Hours - 3 Topics**

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

Lesson 8: Avoiding Detection and Covering Tracks **2 Hours - 3 Topics**

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

Lesson 9: Exploiting the LAN and Cloud **2 Hours - 5 Topics**

- **Topic 9A: Enumerating Hosts (Day 9)**
- **Topic 9B: Attack LAN Protocols (Day 9)**
- **Topic 9D: Discover Cloud Vulnerabilities (Day 9)**
- **Topic 9E: Explore Cloud-Based Attacks (Day 9)**

Lesson 10: Testing Wireless Networks **2 Hours - 2 Topics**

- **Topic 10A: Discover Wireless Attacks (Day 10)**
- **Topic 10B: Explore Wireless Tools (Day 10)**

Lesson 11: Targeting Mobile Devices **2 Hours - 3 Topics**

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

Lesson 12: Attacking Specialized Systems **2 Hours - 3 Topics**

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

Lesson 13: Web Application-Based Attacks **2 Hours - 4 Topics**

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

Lesson 14: Performing System Hacking **2 Hours - 3 Topics**

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

Lesson 15: Scripting and Software Development **2 Hours - 3 Topics**

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

Lesson 16: Leveraging the Attack: Pivot and Penetrate **2 Hours - 3 Topics**

- **Topic 16A: Test Credentials (Day 16)**
- **Topic 16B: Move Throughout the System (Day 16)**
- **Topic 16C: Maintain Persistence (Day 16)**

Lesson 17: Communicating During the PenTesting Process **2 Hours - 3 Topics**

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

Lesson 18: Summarizing Report Components**2 Hours - 3 Topics**

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

Lesson 19: Recommending Remediation**2 Hours - 3 Topics**

- **Topic 19A: Employ Technical Controls (Day 19)**
- **Topic 19B: Administrative and Operational Controls (Day 19)**
- **Topic 19C: Physical Controls (Day 19)**

Lesson 20: Performing Post-Report Delivery Activities**2 Hours - 2 Topics**

- **Topic 20A: Post-Engagement Cleanup (Day 20)**
- **Topic 20B: Follow-Up Actions (Day 20)**