

Official CompTIA Content
for Instructor-Led Training:

CompTIA PenTest+

Official CompTIA Content for Instructor-Led Training is designed with the instructor in mind, providing insights and tools on how to successfully train learners pursuing their CompTIA PenTest+ certification.

Overview

The Official CompTIA PenTest+ Guides (Exam PT0-001) are designed for cybersecurity practitioners who want to develop penetration testing skills to enable them to identify information-system vulnerabilities and effective remediation techniques for those vulnerabilities. These materials focus on the knowledge, ability, and skills necessary to perform tasks on systems as well as management skills used to plan, scope, and manage weaknesses, not just exploit them, as well as prepare candidates to take the CompTIA PenTest+ certification exam.

Official Content:

- The Official CompTIA PenTest+ Instructor Guide (Exam PT0-001)
 - Print
 - eBook
- The Official CompTIA PenTest+ Student Guide (Exam PT0-001)
 - Print
 - eBook
- CompTIA CHOICE Digital Learning Platform
 - Online resources included with purchase of Guides
- CompTIA PenTest+ (Exam PT0-001) CompTIA Labs
- CompTIA CertMaster Practice for PenTest+ (Exam PT0-001)
 - Online

Why is Official CompTIA Content different?

- **For exam takers, by the exam developer** - Official CompTIA Content is the only study material exclusively developed by CompTIA for the CompTIA certification candidate.
- **Complete Library** - No other content library covers all exam objectives for all certifications. It provides complete breadth, depth and currency of material unavailable with competitors.
- **Developed with the instructor in mind** - Official CompTIA Content's focus on instruction is unique, providing instructors ease and flexibility to teach to any audience within any modality.

Key Features and Benefits

- **Designed and Class-tested for Instructor-Led Training** using proven instructional design. Topics are presented in a hierarchy that offers knowledge, procedural tasks and hand-on activities that require students put knowledge into practice. This approach keeps student engaged and ensures success.
- **Comprehensive instructor resources enhanced through CompTIA CHOICE platform** ensures a successful course delivery. Resources to download include:
 - **Course setup** notes describe hardware and software requirements
 - Course-specific **delivery tips** with insights to deliver the course material
 - **Presentation planners** help plan and schedule course based on different course lengths
 - **PowerPoint slides**
 - **Facilitator notes** in instructor manual
 - **Solutions** to activities and discussions
- **Comprehensive student resources enhanced through CompTIA CHOICE platform** engages students by providing:
 - **Classroom:** A link to the training provider's classroom environment
 - **eBook:** An interactive online version of the book, along with secure PDF and downloadable versions
 - **Files:** Any course files available to download
 - **Videos:** Brief animated videos that enhance and extend the classroom learning experience
 - **Assessment:** Questions designed for self-assessment of the course content
 - **Checklists:** Step by step procedures for recurring IT tasks that are part of the course objectives and as post-class references
 - **Links:** Helpful links to certification exam information, CompTIA's IT Careers blog, and additional resources for test prep
 - **Locker:** A resource allowing for secure file exchange with students
- **Focused on job roles and 100% coverage of exam objectives** means content is practical, based on real performance scenarios. In addition, content is aligned to certification exam objectives.
- **Active Learning** is integrated with one activity per topic designed to enable students to practice guidelines and procedures as well as solidify understanding of the informational material presented in the course.
- **Flexible and customizable based on course format** whether the course is co-located or remote, synchronous or asynchronous. Class resources can be easily configured based on modality.

Lab option

- CompTIA Labs hosted by Learn on Demand Systems allow students to learn in actual software applications through a remote lab environment. Labs allow students to practice what they are learning using real, hands-on experiences. Students have access to the software environment for 6 months after a CompTIA Labs access key is redeemed, providing a fantastic post-class resource for students to practice their skills.

Exam Prep Option

- CertMaster Practice is an online knowledge assessment and remediation tool designed to help students feel more confident and prepared for their CompTIA exam. Featuring question-first design, real-time learning analytics, and content refreshers, CertMaster Practice quickly assesses a learner's base of knowledge and then focuses on filling gaps with personalized remediation and feedback.

Course Overview



As organizations scramble to protect themselves and their customers against privacy or security breaches, 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 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 assist you if you are pursuing the CompTIA PenTest+ certification, as tested in exam PTO-001.

Job Roles

- Penetration Tester
- Vulnerability Tester
- Security Analyst (II)
- Vulnerability Assessment Analyst
- Network Security Operations
- Application Security Vulnerability

Prerequisites

To ensure your success in this course, you should have:

- Intermediate knowledge of information security concepts, including but not limited to identity and access management (IAM), cryptographic concepts and implementations, computer networking concepts and implementations, and common security technologies.
- Practical experience in securing various computing environments, including small to medium businesses, as well as enterprise environments.

You can obtain this level of skills and knowledge by taking the official CompTIA® Security+® (Exam SY0-501) course or by obtaining the appropriate industry certification.

Course content summary

Lesson 1: Planning and Scoping Penetration Tests

- Topic A: Introduction to Penetration Testing Concepts
- Topic B: Plan a Pen Test Engagement
- Topic C: Scope and Negotiate a Pen Test Engagement
- Topic D: Prepare for a Pen Test Engagement

Lesson 2: Conducting Passive Reconnaissance

- Topic A: Gather Background Information
- Topic B: Prepare Background Findings for Next Steps

Lesson 3: Performing Non-Technical Tests

- Topic A: Perform Social Engineering Tests
- Topic B: Perform Physical Security Tests on Facilities

Lesson 4: Conducting Active Reconnaissance

- Topic A: Scan Networks
- Topic B: Enumerate Targets
- Topic C: Scan for Vulnerabilities
- Topic D: Analyze Basic Scripts

Lesson 5: Analyzing Vulnerabilities

- Topic A: Analyze Vulnerability Scan Results
- Topic B: Leverage Information to Prepare for Exploitation

Lesson 6: Penetrating Networks

- Topic A: Exploit Network-Based Vulnerabilities
- Topic B: Exploit Wireless and RF-Based Vulnerabilities
- Topic C: Exploit Specialized Systems

Lesson 7: Exploiting Host-Based Vulnerabilities

- Topic A: Exploit Windows-Based Vulnerabilities
- Topic B: Exploit *Nix-Based Vulnerabilities

Lesson 8: Testing Applications

- Topic A: Exploit Web Application Vulnerabilities
- Topic B: Test Source Code and Compiled Apps

Lesson 9: Completing Post-Exploit Tasks

- Topic A: Use Lateral Movement Techniques
- Topic B: Use Persistence Techniques
- Topic C: Use Anti-Forensics Techniques

Lesson 10: Analyzing and Reporting Pen Test Results

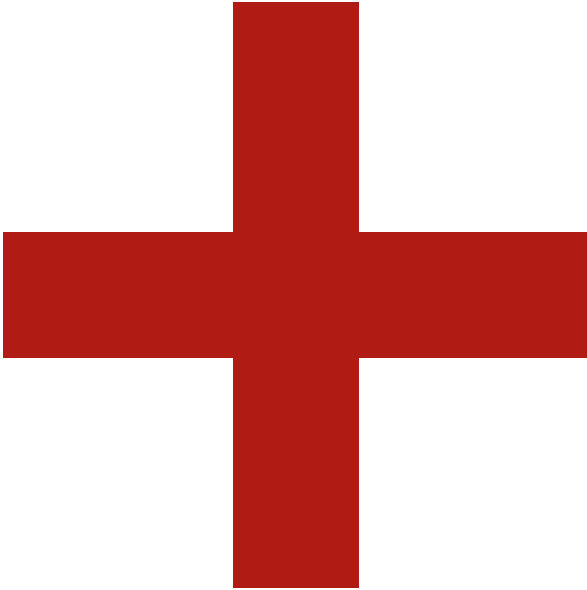
- Topic A: Analyze Pen Test Data
- Topic B: Develop Recommendations for Mitigation Strategies
- Topic C: Write and Handle Reports
- Topic D: Conduct Post-Report-Delivery Activities

Appendix A: Mapping Course Content to CompTIA PenTest+ (Exam PTO-001)

Solutions

Glossary

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Purchase Everything in One Place

Official CompTIA Content is available on the CompTIA Store at store.comptia.com, which means partners will be able to obtain Official CompTIA Content, CompTIA CertMaster products and exam vouchers all in one place.

Please contact your CompTIA business development representative for more information.