Official CompTIA Content for Instructor-Led Training:

Security+ Student Guide 2019 UPDATE

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 Security+ certification.

Overview

The Official CompTIA Security+ Guide 2019 UPDATE (Exam SY0-501) is developed exclusively by CompTIA, combining market-leading content with instructor input and the latest instructional design techniques. A refreshed organization of content, additional assessments, scenario-based exercises and exclusive video from ITPro.TV delivers an integrated solution for preparing students for the Security+ certification exam.

Official CompTIA Content:
- The Official CompTIA Security+ Instructor Guide 2019 UPDATE (Exam SY0-501)
- The Official CompTIA Security+ Student Guide 2019 UPDATE (Exam SY0-501)
- CompTIA CHOICE Digital Learning Platform
  - Online resources included with purchase of student or instructor guide
- The Official CompTIA Security+ LogicalLAB 2019 UPDATE (Exam SY0-501)
- CompTIA CertMaster Practice for Security+ (Exam SY0-501)
New Features in the 2019 UPDATE

- **Alignment and Consistency Across Book, Labs and Assessment:** With CompTIA developing all learning materials, the book, labs and assessments work together with a similar approach and voice ensuring that instructors and students have a cohesive “single-sourced” solution for their Security+ courses.

- **Reorganization lessons:** More lessons (16 compared 11 in the previous edition) distinguish more clearly between functional areas associated with information security roles. The content sequence has been revised, with early lessons providing hands-on activity opportunities with cybersecurity tools and software, before proceeding through identity and access management concepts. Lessons conclude with risk management, software development and security policy uses.

- **Comprehensive Activities:** Hands-on activities have been re-conceived as longer, more comprehensive, lab-style exercises. In addition, extensive review and discussion activities have been added.

- **Hands-on Practice with Virtual Labs:** LogicalLABS hosted by Learn on Demand Systems allows learning in actual software applications through a remote environment. The 2019 Update aligns with the refreshed lab activities. Students have 6 months of access, providing a fantastic resource for students to practice their skills.

- **Engaging Video Program by ITPro.TV:** New videos developed exclusively for CompTIA by ITPro.TV provide short, engaging demonstrations of key activities in the course. The videos provide an alternative to hands-on demonstrations.

- **Robust Assessments:** The Security+ 2019 Update provides practice questions for each lesson and a final assessment covering all lessons, more than 250 questions in total. Additionally, performance-based questions help students apply what they have learned in actual scenarios.

- **Refreshed Interior Design and Image Program:** A modernized interior design updates the presentation of content. More images have been added throughout to complement the narrative and provide visual interest.

Key Features and Benefits

- **Designed and class-tested Instructor-Led Training:** Topics are presented in a hierarchy delivering knowledge, procedural tasks and hand-on activities, keeping students engaged.

- **Comprehensive student and instructor resources enhanced through CompTIA CHOICE platform:** Resources to download include:
  - Course setup notes describe hardware and software requirements
  - Course-specific delivery tips with in-sights to deliver the course material
  - Presentation planners help schedule courses based on the length
  - PowerPoint slides
  - Facilitator notes in instructor manual
  - Solutions to activities and discussions
  - Video program with ITPro.TV

- **100% coverage of job-role focused exam objectives:** Content is practical, based on real performance scenarios. In addition, content is aligned to certification exam objectives.

- **Flexible and customizable based on course format:** Class resources can be easily configured based on modality.

Lab Options

- Labs can be delivered in the classroom with the help of course setup notes, or LogicalLABS allow students to learn in through a remote lab environment. Lab activities are available for each lesson.

Exam Prep Option

- CertMaster Practice is an online assessment and remediation tool designed to help students feel more confident and prepared for their CompTIA certification exam.
Course Overview

This course is for students who are preparing to take the CompTIA Security+ certification exam SY0-501.

This course is aimed toward the IT professional who has networking and administrative skills in Windows-based Transmission Control Protocol/Internet Protocol (TCP/IP) networks; plus familiarity with other operating systems, such as macOS, Unix or Linux; and who wants to further a career in IT by acquiring foundational knowledge of security topics.

Updated Resources

**Labs Available:**
ACTIVITY 1-5: Exploring the Lab Environment
ACTIVITY 1-6: Determining Malware Types
ACTIVITY 3-3: Performing Network Scanning with Software Tools
ACTIVITY 3-5: Analyzing Network Traffic with Packet Sniffing Software Tools
ACTIVITY 3-6: Concealing Data with Steganography Tools
ACTIVITY 3-8: Identifying Vulnerabilities with Scanning Software Tools
ACTIVITY 4-4: Implementing Certificate Services
ACTIVITY 5-3: Deploying Certificates and Implementing Key Recovery
ACTIVITY 6-3: Cracking Passwords using Software Tools
ACTIVITY 7-5: Managing Accounts in a Windows Domain
ACTIVITY 8-5: Implementing a Secure Network Design
ACTIVITY 9-3: Installing and Configuring a Firewall
ACTIVITY 9-5: Installing and Configuring an Intrusion Detection System
ACTIVITY 12-2: Implementing Secure Network Addressing Services
ACTIVITY 12-4: Implementing a Virtual Private Network
ACTIVITY 13-3: Installing and Configuring a Secure Email Service
ACTIVITY 14-6: Using Forensic Tools
ACTIVITY 15-2: Identifying a Man-in-the-Browser Attack

**Performance-based Questions Available:**
Lesson 1: Comparing and Contrasting Attacks
Lesson 5: Implementing Public Key Infrastructure
Lesson 9: Installing and Configuring Security Appliances
Lesson 13: Implementing Secure Network Applications
Lesson 15: Summarizing Secure Application Development Concepts

**Job Roles**
- Systems Administrator
- Security Administrator
- Security Specialist
- Security Engineer
- Network Administrator
- Junior IT Auditor/Penetration Tester
- Security Consultant

**Prerequisites**
Students should have basic Windows user skills and a fundamental understanding of computer and networking concepts. Achievement of CompTIA A+ and Network+ certifications, plus two years of experience with IT administration with a security focus.
Purchase Everything in One Place

Official CompTIA Content is available on the CompTIA Store at store.comptia.org, 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.