

Preparing for the CompTIA Security+TM Certification Exam - 5 Days

Course 446 Overview

You Will Learn How To

- Successfully prepare for the CompTIA Security+ Certification Exam
- Confidently explain and define an array of security terminologies
- Navigate the complexity of secure communication protection
- Explore the concepts of network protection with firewalls and IDS
- · Investigate privacy and integrity issues such as cryptography, PKI and digital signatures

Who Should Attend

Security professionals, government and military personnel seeking IAT-2 or IAM-1 certification to fulfill the 8570.1 Directive, network security personnel and managers with previous technical skills or background.

Workshop Activities

- Practicing exams daily for the six domains
- · Analyzing protocols and security issues with Wireshark
- Employing an IDS to detect and deflect attacks
- Protecting communication with encryption and digital signatures
- Validating certificates using public keys
- Scanning for vulnerabilities

The CompTIA Authorized Quality Curriculum logo is a proprietary trademark of CompTIA. All rights reserved. CompTIA is a registered trademark of the Computing Technology Industry Association, Inc. CompTIA Security+ is a trademark of the Computing Technology Industry Association, Inc.



Preparing for the CompTIA Security+TM Certification Exam - 5 Days

Course 446 Outline

Introduction to the CompTIA Security+ Exam

- · The six domains of knowledge
- Expected level of expertise
- · Assessing initial readiness

Securing the Network Communication security goals

- Evaluating network design and components
- Examining ports, protocols and threats
- · Implementing wireless security

Secure administration principles

- · Designing for security
- · Managing VLANs and firewall rules
- Implementing port security
- · Leveraging flood guards

Compliance and Operational Security Risk-related concepts

- · Inspecting methods of control
- · Conducting risk reduction
- · Formulating risk models
- · Evaluating risk

Mitigation strategies

- · Deterrence, avoidance and transference
- Incident response
- · Preparing security awareness training

Business continuity measures

- Assessing environmental controls
- Planning for disaster recovery
- Analyzing continuity of business plans
- · Implementing high-availability

Access Controls

Infrastructure principles

- · Assessing MAC, DAC and RBAC
- Comparing logical and physical access controls

Strengthening the infrastructure

- · Utilizing authentication systems
- · Implementing multifactor authentication
- · Kerberos and CHAP

Threats and Vulnerabilities Identifying vulnerabilities and threats

- Isolating botnets, viruses and worms
- · Preventing man-in-the-middle attacks
- Stopping social engineering ploys
- · Malicious insiders

· Spamming, phishing and vishing

Application attacks

- · Detecting buffer overflows
- Rejecting injection attacks
- Preventing cookie misuse
- Halting cross-site scripting (XSS)

Application, Data and Host Security

Security assessment tools

- Fuzzers
- · Patch management
- · Application hardening

Host security tools and techniques

- Anti-malware
- · Physical security
- · Mobile devices

Fundamentals of Cryptography

Assuring privacy with encryption

- The CIA model and beyond
- Cryptographic standards and protocols
- Deploying symmetric encryption
- Implementing Public Key cryptography

Establishing cryptographic security

- · Performing digital signatures
- Exploring the role of certificate authorities
- · Managing keys and the CRL
- Analyzing X.509 certificates

Final Review

Preparing for the examination

- Priming for the exam
- Handling out-of-date questions
- · Utilizing additional study guides

Assessing readiness

- · Final review and assessment
- Taking a complete practice exam

The CompTIA Authorized Quality Curriculum logo is a proprietary trademark of CompTIA. All rights reserved. CompTIA is a registered trademark of the Computing Technology Industry Association, Inc.

446 1305 05082013