



Enhanced Network Solutions Group

Systems Integration • Learning Solutions • CIO Consulting
Managed Outsourcing • Healthcare Solutions • Security Solutions

7224 Engle Road - Fort Wayne, IN 46804 - Phone: (260) 432-1364 - Fax: (260) 432.3168

CompTIA Security+ Certification: 2008 Edition

SecPLUS Rev 12.10

5 days

Description

This ILT Series course will prepare students to pass the CompTIA Security+ 2008 certification exam. After taking this course, students will understand the field of network security and how it relates to other areas of information technology. This course also provides the broad-based knowledge necessary to prepare for further study in specialized security fields, or it can serve as a capstone course that gives a general introduction to the field.

Prerequisites

- *CompTIA A+ Certification: IT Technician Fast Track* **or**
CompTIA A+ Certification: Essentials
CompTIA A+ Certification: 220-602
CompTIA A+ Certification: 220-603 and
CompTIA A+ Certification: 220-604
- *CompTIA Network+ Certification*

Course Outline

Unit 1: Mitigating threats

Topic A: Core system maintenance
Topic B: Virus and spyware management
Topic C: Browser security
Topic D: Social engineering threats

Unit 2: Cryptography

Topic A: Symmetric cryptography
Topic B: Public key cryptography

Unit 3: Authentication systems

Topic A: Authentication
Topic B: Hashing
Topic C: Authentication systems

Unit 4: Messaging security

Topic A: E-mail security
Topic B: Messaging and peer-to-peer security

Unit 5: User and role based security

Topic A: Security policies
Topic B: Securing file and print resources

Unit 6: Public key infrastructure

Topic A: Key management and life cycle
Topic B: Setting up a certificate server
Topic C: Web server security with PKI

Unit 7: Access security

Topic A: Biometric systems
Topic B: Physical access security
Topic C: Peripheral and component security
Topic D: Storage device security

Unit 8: Ports and protocols

Topic A: TCP/IP review
Topic B: Protocol-based attacks

Unit 9: Network security

Topic A: Common network devices
Topic B: Secure network topologies
Topic C: Browser-related network security
Topic D: Virtualization

Unit 10: Wireless security

Topic A: Wi-Fi network security
Topic B: Non-PC wireless devices

Unit 11: Remote access security

Topic A: Remote access
Topic B: Virtual private networks

Unit 12: Auditing, logging, and monitoring

Topic A: System logging
Topic B: Server monitoring



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Unit 13: Vulnerability testing

Topic A: Risk and vulnerability assessment

Topic B: IDS and IPS

Topic C: Forensics

Unit 14: Organizational security

Topic A: Organizational policies

Topic B: Education and training

Topic C: Disposal and destruction

Unit 15: Business continuity

Topic A: Redundancy planning

Topic B: Backups

Topic C: Environmental controls

Appendix A: CompTIA Security+ objectives map

Topic A: Objective map

Appendix B: CompTIA Security+ acronyms

Topic A: Acronym list



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