

SCNS Boot Camp Course Outline

Lesson 1: Network Defense Fundamentals

- Topic 1A: Network Defense
- Topic 1B: Defensive Technologies
- Topic 1C: Objectives of Access Control
- Topic 1D: The Impact of Defense
- Topic 1E: Network Auditing Concepts

Lesson 2: Advanced TCP/IP

- Topic 2A: TCP/IP Concepts
- Topic 2B: Analyzing the Three-way Handshake
- Topic 2C: Capturing and Identifying IP Datagrams
- Topic 2D: Capturing and Identifying ICMP Messages
- Topic 2E: Capturing and Identifying TCP Headers
- Topic 2F: Capturing and Identifying UDP Headers
- Topic 2G: Analyzing Packet Fragmentation
- Topic 2H: Analyzing an Entire Session

Lesson 3: Routers and Access Control Lists

- Topic 3A: Fundamental Cisco Security
- Topic 3B: Routing Principles
- Topic 3C: Removing Protocols and Services
- Topic 3D: Creating Access Control Lists
- Topic 3E: Implementing Access Control Lists
- Topic 3F: Logging Concepts

Lesson 4: Designing Firewalls

- Topic 4A: Firewall Components
- Topic 4B: Create a Firewall Policy
- Topic 4C: Rule Sets and Packet Filters
- Topic 4D: Proxy Server
- Topic 4E: The Bastion Host
- Topic 4F: The Honeypot

Lesson 5: Configuring Firewalls

- Topic 5A: Understanding Firewalls
- Topic 5B: Configuring Microsoft ISA Server 2006
- Topic 5C: IPTables Concepts
- Topic 5D: Implementing Firewall Technologies

Lesson 6: Implementing IPsec and VPNs

- Topic 6A: Internet Protocol Security
- Topic 6B: IPsec Policy Management
- Topic 6C: IPsec AH Implementation
- Topic 6D: Combining AH and ESP in IPsec
- Topic 6E: VPN Fundamentals
- Topic 6F: Tunneling Protocols
- Topic 6G: VPN Design and Architecture
- Topic 6H: VPN Security
- Topic 6I: Configuring a VPN

Lesson 7: Designing an Intrusion Detection System

- Topic 7A: The Goals of an Intrusion Detection System
- Topic 7B: Technologies and Techniques of Intrusion Detection
- Topic 7C: Host-based Intrusion Detection
- Topic 7D: Network-based Intrusion Detection
- Topic 7E: The Analysis
- Topic 7F: How to Use an IDS
- Topic 7G: What an IDS Cannot Do

Lesson 8: Configuring an IDS

- Topic 8A: Snort Foundations
- Topic 8B: Snort Installation
- Topic 8C: Snort as an IDS
- Topic 8D: Configuring Snort to Use a Database
- Topic 8E: Running an IDS on Linux

Lesson 9: Securing Wireless Networks

- Topic 9A: Wireless Networking Fundamentals
- Topic 9B: Wireless LAN (WLAN) Fundamentals
- Topic 9C: Wireless Security Solutions
- Topic 9D: Wireless Auditing
- Topic 9E: Wireless Trusted Networks