

HACKERU



Network Security

CB105

05
Days

Network Security

Outline

The purpose of this course is to build the skill set required to secure, manage, and operate network communication equipment & systems, for various types of organizations. The course provides preparation material for the CCNA certification exam.

The curriculum focuses on enabling students to land high-level positions in organizations specializing in technological and business-related fields. It ensures that students will acquire the cyber skills they need to appear outstanding to potential employers in the market.



Target Audience

This course is meant for IT personnel, security managers, and security technicians who want to improve their skills in the ever-evolving fields of network monitoring and protection solutions.



Prerequisites

Candidates for this course should be familiar with client-server communication models, networking concepts, and basic computer operations. They should also be familiar with the topic of potential cyber threats and security awareness.



Objectives

Upon completing this course, graduates will have acquired the skills needed to secure, manage, and operate network communication equipment and systems. They will have a good understanding of:

- Security layers
- Operating system security
- Network security
- Software security



Content

Day 1 **Module 01** Network Security Systems & Architecture

- | Cisco Certified CyberOps Associate
- | Networking Recap
- | Redundancy Methods
- | Network Security Design
- | Network Security Systems

Day 1 **Module 02** Secure Management & Access

- | AAA Concepts
- | RADIUS Vs. TACACS+
- | 802.1X Authentication

Day 2 **Module 03** Network Attacks & Mitigation

- | MAC Spoofing
- | CAM Table Overflow
- | Port Security Mitigation
- | VLAN Hopping
- | CDP/LLDP Reconnaissance
- | Secure Dynamic Routing
- | NTP Attacks
- | DHCP Attacks

Day 2 **Module 04** Network Traffic Analysis

- | Advanced Wireshark
- | Wireshark Statistics
- | File Extraction
- | Network Miner
- | Network Monitor

Day 3 **Module 05** Practical Cryptography

- | Cryptography Concepts
- | Hash Algorithms
- | Encryption
- | Digital Signature & Certifications

Day 3 **Module 06** Firewall Fundamental

- | Firewall Introduction
- | pfSense
- | Firewall Types
- | Additional Firewall Features



Secure, manage and operate
network communication equipment
and systems"

Day
4

Module 07 VPN Technologies

- | VPN Concepts
- | VPN Types
- | Remote Access VPN
- | Site-to-Site VPN
- | Modern VPNs
- | Risks and Limitations of VPN
- | Security Considerations

Day
4

Module 08 Network Monitoring

- | Introduction to Network Monitoring
- | Protocol Analyzer
- | RSA Netwitness
- | Bro
- | SNMP
- | NetFlow
- | Network Monitoring Tools
- | Deep Packet Inspection

Day
5

Module 09 IPS & IDS Concepts

- | IPS & IDS Overview
- | IPS\IDS Functions
- | Implement IPS

Day
5

Module 10 Final Project

- | Build environment with Network Security Countermeasures



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