

# SCOR - IMPLEMENTING AND OPERATING CISCO SECURITY CORE TECHNOLOGIES V2.0

Course Code: 100494

You will learn CCNP Security and CCIE Security certifications and for senior-level security roles featuring Cisco security solutions.

In the *SCOR - Implementing and Operating Cisco Security Core Technologies v2.0* course you will master the skills and technologies you need to implement core Cisco security solutions to provide advanced threat protection against cybersecurity attacks. You will learn security for networks, cloud and content, endpoint protection, secure network access, visibility and enforcements. You will get extensive hands-on experience deploying Cisco Firepower Next-Generation Firewall and Cisco ASA Firewall; configuring access control policies, mail policies, and 802.1X Authentication; and more.

This course is eligible for 64 Continuing Education Credits (ILT & ELT Modality).

## What You'll Learn

- Describe information security concepts and strategies within the network
- Describe common TCP/IP, network application, and endpoint attacks
- Describe how various network security technologies work together to guard against attacks
- Implement access control on Cisco ASA appliance and Cisco Firepower Next-Generation Firewall
- Describe and implement basic email content security features and functions provided by Cisco Email Security Appliance
- Describe and implement web content security features and functions provided by Cisco Web Security Appliance
- Describe Cisco Umbrella security capabilities, deployment models, policy management, and Investigate console
- Introduce VPNs and describe cryptography solutions and algorithms
- Describe Cisco secure site-to-site connectivity solutions and explain how to deploy Cisco IOS VTI-based point-to-point IPsec VPNs, and point-to-point IPsec VPN on the Cisco ASA and Cisco FirePower NGFW
- Describe and deploy Cisco secure remote access connectivity solutions and

- describe how to configure 802.1X and EAP authentication
- Provide basic understanding of endpoint security and describe AMP for Endpoints architecture and basic features
- Examine various defenses on Cisco devices that protect the control and management plane
- Configure and verify Cisco IOS Software Layer 2 and Layer 3 Data Plane Controls
- Describe Cisco Stealthwatch Enterprise and Stealthwatch Cloud solutions
- Describe basics of cloud computing and common cloud attacks and how to secure cloud environment

You will get introductory practice on Cisco Stealthwatch Enterprise and Cisco Stealthwatch Cloud threat detection features.

**Learn more about this topic, attend the live webinar [Remote Business – 5 Ms to Success](#). Register now.**

#### Who Needs to Attend

- Security Engineer
- Network Engineer
- Network Designer
- Network Administrator
- Systems Engineer
- Consulting Systems Engineer
- Technical Solutions Architect
- Cisco Integrators/Partners
- Network Manager
- Cisco integrators and partners

#### Prerequisites

- Skills and knowledge equivalent to those learned in Implementing and Administering Cisco Solutions (CCNA) v1.0 course
- Familiarity with Ethernet and TCP/IP networking
- Working knowledge of the Windows operating system
- Working knowledge of Cisco IOS networking and concepts
- Familiarity with basics of networking security concepts

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CLASSROOM LIVE

\$5,614 CAD

5 Day

## Classroom Live Outline

- Describing Information Security Concepts\*
  - ☒ Information Security Overview
  - ☒ Managing Risk
  - ☒ Vulnerability Assessment
  - ☒ Understanding CVSS
- Describing Common TCP/IP Attacks\*
  - ☒ Legacy TCP/IP Vulnerabilities
  - ☒ IP Vulnerabilities
  - ☒ ICMP Vulnerabilities
  - ☒ TCP Vulnerabilities
  - ☒ UDP Vulnerabilities
  - ☒ Attack Surface and Attack Vectors
  - ☒ Reconnaissance Attacks
  - ☒ Access Attacks
  - ☒ Man-In-The-Middle Attacks
  - ☒ Denial of Service and Distributed Denial of Service Attacks
  - ☒ Reflection and Amplification Attacks
  - ☒ Spoofing Attacks
  - ☒ DHCP Attacks
- Describing Common Network Application Attacks\*
  - ☒ Password Attacks
  - ☒ DNS-Based Attacks
  - ☒ DNS Tunneling
  - ☒ Web-Based Attacks
  - ☒ HTTP 302 Cushioning

- ☒ Command Injections
- ☒ SQL Injections
- ☒ Cross-Site Scripting and Request Forgery
- ☒ Email-Based Attacks
- Describing Common Endpoint Attacks\*
  - ☒ Buffer Overflow
  - ☒ Malware
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  - ☒ Gaining Access and Control
  - ☒ Gaining Access via Social Engineering
  - ☒ Gaining Access via Web-Based Attacks
  - ☒ Exploit Kits and Rootkits
  - ☒ Privilege Escalation
  - ☒ Post-Exploitation Phase
  - ☒ Angler Exploit Kit
- Describing Network Security Technologies
  - ☒ Defense-in-Depth Strategy
  - ☒ Defending Across the Attack Continuum
  - ☒ Network Segmentation and Virtualization Overview
  - ☒ Stateful Firewall Overview
  - ☒ Security Intelligence Overview
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  - ☒ DNS Security Overview
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  - ☒ Virtual Private Network Technology Overview
  - ☒ Network Security Device Form Factors Overview
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  - ☒ Cisco ASA Deployment Types
  - ☒ Cisco ASA Interface Security Levels
  - ☒ Cisco ASA Objects and Object Groups
  - ☒ Network Address Translation
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  - ☒ Cisco ASA Global ACLs
  - ☒ Cisco ASA Advanced Access Policies
  - ☒ Cisco ASA High Availability Overview
- Deploying Cisco Firepower Next-Generation Firewall
  - ☒ Cisco Firepower NGFW Deployments
  - ☒ Cisco Firepower NGFW Packet Processing and Policies

- ☒ Cisco Firepower NGFW Objects
- ☒ Cisco Firepower NGFW NAT
- ☒ Cisco Firepower NGFW Prefilter Policies
- ☒ Cisco Firepower NGFW Access Control Policies
- ☒ Cisco Firepower NGFW Security Intelligence
- ☒ Cisco Firepower NGFW Discovery Policies
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- ☒ Cisco Firepower NGFW Malware and File Policies
- Deploying Email Content Security
  - ☒ Cisco Email Content Security Overview
  - ☒ SMTP Overview
  - ☒ Email Pipeline Overview
  - ☒ Public and Private Listeners
  - ☒ Host Access Table Overview
  - ☒ Recipient Access Table Overview
  - ☒ Mail Policies Overview
  - ☒ Protection Against Spam and Graymail
  - ☒ Anti-virus and Anti-malware Protection
  - ☒ Outbreak Filters
  - ☒ Content Filters
  - ☒ Data Loss Prevention
  - ☒ Email Encryption
- Deploying Web Content Security
  - ☒ Cisco WSA Overview
  - ☒ Deployment Options
  - ☒ Network Users Authentication
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  - ☒ Access Policies and Identification Profiles
  - ☒ Acceptable Use Controls Settings
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- Deploying Cisco Umbrella\*
  - ☒ Cisco Umbrella Architecture
  - ☒ Deploying Cisco Umbrella
  - ☒ Cisco Umbrella Roaming Client
  - ☒ Managing Cisco Umbrella
  - ☒ Cisco Umbrella Investigate Overview
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- Describing Endpoint Security Technologies\*
  - ☒ Host-Based Personal Firewall
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  - ☒ Application Whitelists and Blacklists

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- ☒ Sandboxing Overview
- ☒ File Integrity Checking
- Deploying Cisco AMP for Endpoints\*
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  - ☒ Retrospective Security with Cisco AMP
  - ☒ Cisco AMP Device and File Trajectory
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  - ☒ Identifying Network Device Planes
  - ☒ Control Plane Security Controls
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  - ☒ VLAN-Based Attacks Mitigation
  - ☒ STP Attacks Mitigation
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  - ☒ DHCP Snooping
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  - ☒ Infrastructure Antispoofing ACLs
  - ☒ Unicast Reverse Path Forwarding
  - ☒ IP Source Guard

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- Configure Cisco ASA Access Control Policies
- Configure Cisco Firepower NGFW NAT
- Configure Cisco Firepower NGFW Access Control Policy
- Configure Cisco Firepower NGFW Discovery and IPS Policy
- Configure Cisco NGFW Malware and File Policy
- Configure Listener, HAT, and RAT on Cisco ESA

- Configure Mail Policies
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VIRTUAL CLASSROOM LIVE

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Apr 21 - 25, 2025 | 8:30 AM - 4:30 PM EDT

Jun 9 - 13, 2025 | 8:30 AM - 4:30 PM EDT

Aug 11 - 15, 2025 | 8:30 AM - 4:30 PM EDT

Oct 27 - 31, 2025 | 8:30 AM - 4:30 PM EDT

Dec 1 - 5, 2025 | 8:30 AM - 4:30 PM EST

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ON-DEMAND

\$668 CAD

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