

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

\$5,595 CAD

5 Day

Classroom Live Outline

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 - ☒ 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
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 - ☒ Password Attacks
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 - ☒ HTTP 302 Cushioning
 - ☒ Command Injections
 - ☒ SQL Injections
 - ☒ Cross-Site Scripting and Request Forgery

- ☒ Email-Based Attacks
- Describing Common Endpoint Attacks*
 - ☒ Buffer Overflow
 - ☒ Malware
 - ☒ Reconnaissance Attack
 - ☒ 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
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 - ☒ Defending Across the Attack Continuum
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 - ☒ Authentication, Authorization, and Accounting Overview
 - ☒ Identity and Access Management Overview
 - ☒ Virtual Private Network Technology Overview
 - ☒ Network Security Device Form Factors Overview
- Deploying Cisco ASA Firewall
 - ☒ Cisco ASA Deployment Types
 - ☒ Cisco ASA Interface Security Levels
 - ☒ Cisco ASA Objects and Object Groups
 - ☒ Network Address Translation
 - ☒ Cisco ASA Interface ACLs
 - ☒ Cisco ASA Global ACLs
 - ☒ Cisco ASA Advanced Access Policies
 - ☒ Cisco ASA High Availability Overview
- Deploying Cisco Firepower Next-Generation Firewall
 - ☒ Cisco Firepower NGFW Deployments
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- ☒ Cisco Firepower NGFW Security Intelligence
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- ☒ Cisco Firepower NGFW IPS Policies
- ☒ 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
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 - ☒ Cisco WSA Overview
 - ☒ Deployment Options
 - ☒ Network Users Authentication
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 - ☒ Access Policies and Identification Profiles
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 - ☒ Anti-Malware Protection
- Deploying Cisco Umbrella*
 - ☒ Cisco Umbrella Architecture
 - ☒ Deploying Cisco Umbrella
 - ☒ Cisco Umbrella Roaming Client
 - ☒ Managing Cisco Umbrella
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 - ☒ VPN Definition
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 - ☒ Site-to-Site VPN Topologies
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 - ☒ IPsec Static Crypto Maps
 - ☒ IPsec Static Virtual Tunnel Interface
 - ☒ Dynamic Multipoint VPN

- ☒ Cisco IOS FlexVPN
- Deploying Cisco IOS VTI-Based Point-to-Point
 - ☒ Cisco IOS VTIs
 - ☒ Static VTI Point-to-Point IPsec IKEv2 VPN Configuration
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 - ☒ 802.1X and EAP
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 - ☒ Role of RADIUS in 802.1X Communications
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- Configuring 802.1X Authentication
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 - ☒ Host-Based Anti-Virus
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 - ☒ Application Whitelists and Blacklists
 - ☒ Host-Based Malware Protection
 - ☒ Sandboxing Overview
 - ☒ File Integrity Checking

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 - ☒ Cisco AMP for Endpoints Architecture
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 - ☒ Identifying Network Device Planes
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- Configure Listener, HAT, and RAT on Cisco ESA
- Configure Mail Policies
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- Enforce Acceptable Use Control and Malware Protection

- Examine the Umbrella Dashboard
- Examine Cisco Umbrella Investigate
- Explore DNS Ransomware Protection by Cisco Umbrella
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Jun 8 - 12, 2026 | 8:30 AM - 4:30 PM EDT

Aug 3 - 7, 2026 | 8:30 AM - 4:30 PM EDT

Oct 12 - 16, 2026 | 8:30 AM - 4:30 PM EDT

Dec 7 - 11, 2026 | 8:30 AM - 4:30 PM EST

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ON-DEMAND

\$668 CAD

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 - ☒ Host-Based Intrusion Prevention System
 - ☒ Application Whitelists and Blacklists
 - ☒ Host-Based Malware Protection
 - ☒ Sandboxing Overview
 - ☒ File Integrity Checking

- Deploying Cisco AMP for Endpoints*
 - ☒ Cisco AMP for Endpoints Architecture
 - ☒ Cisco AMP for Endpoints Engines
 - ☒ Retrospective Security with Cisco AMP
 - ☒ Cisco AMP Device and File Trajectory
 - ☒ Managing Cisco AMP for Endpoints
- Introducing Network Infrastructure Protection*
 - ☒ Identifying Network Device Planes
 - ☒ Control Plane Security Controls
 - ☒ Management Plane Security Controls
 - ☒ Network Telemetry
 - ☒ Layer 2 Data Plane Security Controls
 - ☒ Layer 3 Data Plane Security Controls
- Deploying Control Plane Security Controls*
 - ☒ Infrastructure ACLs
 - ☒ Control Plane Policing
 - ☒ Control Plane Protection
 - ☒ Routing Protocol Security
- Deploying Layer 2 Data Plane Security Controls*
 - ☒ Overview of Layer 2 Data Plane Security Controls
 - ☒ VLAN-Based Attacks Mitigation
 - ☒ STP Attacks Mitigation
 - ☒ Port Security
 - ☒ Private VLANs
 - ☒ DHCP Snooping
 - ☒ ARP Inspection
 - ☒ Storm Control
 - ☒ MACsec Encryption
- Deploying Layer 3 Data Plane Security Controls*
 - ☒ Infrastructure Antispoofing ACLs
 - ☒ Unicast Reverse Path Forwarding
 - ☒ IP Source Guard



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