



Designing Cisco Security Infrastructure (SDSI)

ID SDSI Price on request Duration 5 days

Course Overview

The Designing Cisco Security Infrastructure (SDSI) training teaches you about security architecture design, including secure infrastructure, applications, risk, events, requirements, artificial intelligence (AI), automation, and DevSecOps.

This training prepares you for the 300-745 SDSI v1.0 exam. If passed, you earn the Cisco Certified Specialist – Designing Cisco Security Infrastructure certification and satisfy the concentration exam requirement for the Cisco Certified Network Professional (CCNP) Security certification. **How You'll Benefit**

This training will help you:

- Gain hands-on experience of security architecture design
- Qualify for professional and expert-level security job roles
- Prepare for the 300-745 SDSI v1.0 exam
- Earn 41 CE credits toward recertification

What to Expect in the Exam

Designing Cisco Security Infrastructure (300-745 SDSI) v1.0 is a 90-minute exam associated with the Cisco Certified Specialist - Designing Cisco Security Infrastructure certification and satisfies the core exam requirement for the CCNP Security certification.

This exam tests your knowledge of security architecture design, including:

- · Secure infrastructure
- Applications
- Risk
- Events
- Requirements
- Artificial intelligence and Automation
- DevSecOps

Who should attend

- Cisco and Partner's Systems Engineers
- Customer Network & Infrastructure Engineers
- Customer Security/NOC Engineers

Prerequisites

There are no prerequisites for this training. However, the knowledge and skills you are recommended to have before attending this training are:

- Cisco CCNP Security or equivalent knowledge
- Familiarity with Microsoft Windows Operating Systems
- Familiarity with the Cisco Security portfolio

These skills can be found in the following Cisco Learning Offerings:

- Implementing and Operating Cisco Security Core Technologies (SCOR)
- Fundamentals of Cisco Firewall Threat Defense and Intrusion Prevention (SFWIPF)
- Implementing and Configuring Cisco Identity Services Engine (SISE)
- Designing and Implementing Secure Cloud Access for Users and Endpoints (SCAZT)
- Advanced Techniques for Cisco Firewall Threat Defense and Intrusion Prevention (SFWIPA)
- Implementing Automation for Cisco Security Solutions (SAUI)
- Implementing Secure Solutions with Virtual Private Networks (SVPN)
- Introducing Automation for Cisco Solutions (CSAU)
- Securing Email with Cisco Email Security Appliance (SESA)
- Securing the Web with Cisco Web Security Appliance (SWSA)

Course Objectives

- Identify and explain the fundamental concepts of security architecture and how they support the design, building, and maintenance of a secure infrastructure
- Identify the layers of security infrastructure, core security technologies, and infrastructure concepts





- Explain how security designs principles contribute to secure infrastructure
- Identify and discuss security design and management frameworks that can be used for infrastructure security design
- Explain the importance of and methods for enforcement of regulatory compliance in security design
- Identify tools that enable detection and response to infrastructure security incidents
- Explain various strategies that can be implemented to modify traditional security architectures to meet the technical requirements of modern enterprise networks
- Implement secure network access methods, such as 802.1X, MAC Authentication Bypass (MAB), and webbased authentication
- Describe security technologies that can be applied to enterprise Wide Area Network (WAN) connections
- Compare methods to secure network management and control plane traffic
- Compare the differences between traditional firewalls and next-gen firewalls (NGFWs) and identify the advanced features that NGFWs provide
- Explain how web application firewalls (WAFs) secure web applications from threats
- Describe the key features and best practices for deploying intrusion detection system (IDS) and intrusion prevention system (IPS) as part of the enterprise infrastructure security design
- Explain how endpoints and services in cloud-native or microservice environments can be protected with hostbased or distributed firewalls
- Discuss security technologies that address application data and data that is in transit
- Identify several security solutions for cloud-native applications, microservices, and containers
- Explain how technology advancements allow for improvements in today's infrastructure security
- Identify tools that enable detection and response to infrastructure security incidents
- Describe frameworks and controls to access and mitigate security risks for infrastructure
- Explain how to make security adjustments following a security incident
- Identify DevSecOps integrations that improve security management and response
- Discuss how to ensure that automated services are secure
- Discuss how AI can aid in threat detection and response

- Security and Design Frameworks
- Compliance and Regulatory Requirements
- Security Approaches to Protect Against Threats
- Modify the Security Architecture to Meet Technical Requirements
- Network Access Security
- VPN and Tunneling Solutions
- Secure Infrastructure Management and Control Planes
- Nextgen Firewalls
- Web Application Firewall (WAF)
- IPS/IDS Deployment
- · Host-Based Firewalls and Distributed Firewalls
- Security Solutions Based on Application and Flow Data
- Security for Cloud-Native Applications, Microservices, and Containers
- Emerging Technologies in Application Security
- · SOC Tools for Incident Handling and Response
- Modify Design to Mitigate Risk
- Incident-Driven Security Adjustments
- DevSecOps Integration
- · Secure Automated Workflows and Pipelines
- · Al's Role in Securing Infrastructure

Detailed Course Outline

- Definition and Purpose of Security Architecture
- · Components of Security Infrastructure
- Security Design Principles

About Fast Lane



Fast Lane is a global, award-winning specialist in technology and business training as well as consulting services for digital transformation. As the only global partner of the three cloud hyperscalers- Microsoft, AWS and Google- and partner of 30 other leading IT vendors, Fast Lane offers qualification solutions and professional services that can be scaled as needed. More than 4,000 experienced Fast Lane professionals train and advise customers in organizations of all sizes in 90 countries worldwide in the areas of cloud, artificial intelligence, cyber security, software development, wireless and mobility, modern workplace. as well as management and leadership skills, IT and project management.

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