

**SDSI**

## Designing Cisco Security Infrastructure

40 horas

Profissional

Cisco

**Cisco Continuing Education Credits****41 CE Credits**

### INTRODUÇÃO

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

## OBJETIVO DO CURSO

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Identify fundamental concepts of security architecture

Identify layers of security infrastructure and core security technologies

Explain security design principles

Identify security design and management frameworks

Explain regulatory compliance in security design

Identify tools for detection and response to security incidents

Explain strategies to modify traditional security architectures for modern enterprise networks

Implement secure network access methods (802.1X, MAB, web-based authentication)

Describe security technologies for enterprise WAN connections

Compare methods to secure network management and control plane traffic

Compare traditional firewalls vs. NGFWs

Explain web application firewalls (WAFs)

Describe IDS/IPS deployment best practices

Explain endpoint and cloud-native service protection

Discuss security for application data and data in transit

Identify security solutions for cloud-native applications and containers

Explain AI role in threat detection and response

Identify tools for detection and response to security incidents

Describe frameworks to mitigate security risks

Identify DevSecOps integrations

Discuss how to ensure automated services are secure

## PÚBLICO-ALVO

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Cisco and Partner Systems Engineers, Customer Network and Infrastructure Engineers, Customer Security/NOC Engineers

## PRÉ-REQUISITOS

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No formal prerequisites. Recommended: CCNP Security or equivalent, familiarity with Windows OS and Cisco Security portfolio.

## CONTEÚDO PROGRAMÁTICO

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### Course Outline

Definition and Purpose of Security Architecture  
Components of Security Infrastructure  
Security Design Principles  
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  
Next-Gen Firewalls  
Web Application Firewall (WAF)  
IPS/IDS Deployment  
Host-Based 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  
AI's Role in Securing Infrastructure

### Lab Outline

There are no labs associated with this training.