Designing Cisco Security Infrastructure Training

Duration: **5 Day**

BILGINC IT Academy
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Overview

The **Designing Cisco Security Infrastructure (SDSI)** course provides an in-depth understanding of **security architecture design**, covering secure infrastructure, applications, risk management, AI, automation, and **DevSecOps** integration.

This course prepares you for the**300-745 SDSI v1.0** exam.
Passing this exam earns you the**Cisco Certified Specialist – Designing Cisco Security Infrastructure** certification and fulfills the concentration requirement for **CCNP Security** certification.

Prerequisites

There are no formal prerequisites.
However, participants are recommended to have:

- Cisco **CCNP Security** or equivalent knowledge
- Familiarity with **Microsoft Windows OS**
- Knowledge of **Cisco Security portfolio**

Who Should Attend

This course is designed for:

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

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What You Will Learn

By the end of this course, learners will be able to:

- Define and explain **security architecture concepts** and layers
- Apply **security design principles** to infrastructure
- Understand and implement **compliance and governance frameworks**
- Detect and respond to **security incidents** using SOC tools
- Design **secure network access** using 802.1X, MAB, and web-based authentication
- Secure **VPN and WAN connections**
- Compare **traditional vs. next-gen firewalls (NGFW)**
- Deploy **Web Application Firewalls (WAF)** for application protection
- Integrate **IDS/IPS** within enterprise environments
- Protect **cloud-native and microservice** environments
- Design **host-based and distributed firewalls**
- Secure application and flow data
- Integrate **AI** into threat detection and response
- Implement **DevSecOps pipelines** and secure automated workflows

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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
- 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
- AI’s Role in Securing Infrastructure