



Designing Cisco Enterprise Networks (ENSLD)



CCIE 43023 / CCSI
34840/ PCNSE

Instructor del curso:
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Esta capacitación brinda el conocimiento y las habilidades que necesita para diseñar una red empresarial así mismo te ayudará en la preparación para rendir el examen **300-420 Designing Cisco Enterprise Networks (ENSLD)** el cual forma parte de las certificaciones CCNP Enterprise

Temas y horas del curso

Designing Cisco Enterprise Networks (ENSLD) - 300-420		
Módulo	Nombre	
1	Advanced Routing Designs	15h
1.1	Designing EIGRP Routing	2
1.2	Designing OSPF Routing	2
1.3	Designing IS-IS Routing	4
1.4	Designing BGP Routing and Redundancy	3
1.5	Exploring BGP Address Families and Attributes	4
2	Designing Enterprise Campus LAN	6h
2.1	Designing an Enterprise Campus LAN	3
2.2	Designing Layer 2 Campus	1.5
2.3	Designing Layer 3 Campus	1.5

3	SD-Access Design	6h
3.1	Discovering the Cisco SD-Access Architecture	2
3.2	Exploring Cisco SD-Access Fabric Design	2
3.3	Exploring Cisco SD-Access Site Design Strategy and Considerations	2
4	Designing WAN and IPv4 and IPv6 Addressing Designs	8h
4.1	Discovering Service Provider-Managed VPNs	2
4.2	Designing Enterprise-Managed VPNs	1
4.3	Designing WAN Resiliency	0.5
4.4	Designing an IPv4 Address Plan	0.5
4.5	Exploring IPv6	2
4.6	Deploying IPv6	2
5	SD-WAN Design	6h
5.1	Examining Cisco SD-WAN Architectures	1.5
5.2	Examining Cisco SD-WAN Deployment Design Considerations	1
5.3	Examining Cisco SD-WAN—NAT and Hybrid Design Considerations	1.5
5.4	Designing Cisco SD-WAN Routing and High Availability	2

6	Design LAN and WAN QoS and Multicast Design	6h
6.1	Understanding QoS	1
6.2	Designing LAN and WAN QoS	1.5
6.3	Introducing Multicast	1
6.4	Exploring Multicast with PIM-SM	1
6.5	Designing Rendezvous Point Distribution Solutions	1.5

7	Automation	2h
7.1	Introducing Network APIs and Protocols	1
7.2	Exploring YANG, NETCONF, RESTCONF, and Model-Driven Telemetry	1
7.2	Exploring YANG, NETCONF, RESTCONF, and Model-Driven Telemetry	1
Horas totales		49

Temario

- Design Enhanced Interior Gateway Routing Protocol (EIGRP) internal routing for the enterprise network
- Design Open Shortest Path First (OSPF) internal routing for the enterprise network
- Design Intermediate System to Intermediate System (IS-IS)
- Design a network based on customer requirements
- Design Border Gateway Protocol (BGP) routing for the enterprise network
- Describe the different types and uses of Multiprotocol BGP (MP-BGP) address families
- Describe BGP load sharing
- Design a BGP network based on customer requirements
- Decide where the L2/L3 boundary will be in your Campus network and make design decisions
- Describe Layer 2 design considerations for Enterprise Campus networks
- Design a LAN network based on customer requirements
- Describe Layer 3 design in an Enterprise Campus network
- Examine Cisco SD-Access fundamental concepts
- Describe Cisco SD-Access Fabric Design
- Design a Software-Defined Access (SD-Access)
- Design service provider-managed VPNs
- Design enterprise-managed VPNs

- Design a resilient WAN
- Design a resilient WAN network based on customer requirements
- Examine the Cisco SD-WAN architecture
- Describe Cisco SD-WAN deployment options
- Design Cisco SD-WAN redundancy
- Explain the basic principles of QoS
- Design Quality of Service (QoS) for the WAN
- Design QoS for enterprise network based on customer requirements
- Explain the basic principles of multicast
- Designing rendezvous point distribution solutions
- Describe high-level when doing IP addressing design
- Create an IPv6 addressing plan
- Plan an IPv6 deployment in an existing enterprise IPv4 network
- Describe the challenges that you might encounter when transitioning to IPv6
- Design an IPv6 addressing plan based on customer requirements
- Describe Network APIs and protocols
- Describe Yet Another Next Generation (YANG), Network Configuration Protocol (NETCONF), and Representational State Transfer Configuration Protocol (RESTCONF)

¿De qué trata esta carrera?

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