



## Designing Cisco Enterprise Networks (ENSLD) – e-Learning

Cisco

- **Nível:** Avançado
  - **Duração:** h
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### Sobre o curso

The Designing Cisco Enterprise Networks (ENSLD) v1.1 course gives you the knowledge and skills you need to design an enterprise network.

This course serves as a deep dive into enterprise network design and expands on the topics covered in the Implementing and Operating Cisco Enterprise Network Core Technologies (ENCOR) course.

This course also helps you prepare to take the Designing Cisco Enterprise Networks (300-420 ENSLD) exam, which is part of the CCNP Enterprise and Cisco Certified Specialist – Enterprise Design certifications.

#### Certification

- Associated Certification: CCNP Enterprise
- Associated Exam: 300-420 ENSLD

#### This course includes

- Access duration: 180 days
- Self-paced training
- Video training
- Continuing Education Credits: 40

This course is also available in an Instructor-Led Training (ILT) format. For more information, select this link: [Designing Cisco Enterprise Networks \(ENSLD\)](#)

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### Destinatários

- Network design engineers

- Network engineers
  - System administrators
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## Objetivos

After taking this course, you should be able to:

- 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) internal routing for the enterprise network
- 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 considerations in an Enterprise Campus network
- Examine Cisco Software-Defined Access (SD-Access) fundamental concepts
- Describe Cisco SD-Access Fabric Design
- Design an SD-Access Campus Fabric based on customer requirements
- 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 quality of service (QoS)
- Design QoS for the WAN
- Design QoS for enterprise network based on customer requirements
- Explain the basic principles of multicast
- Design rendezvous point distribution solutions
- Describe high-level considerations 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

## Pré-requisitos

Before taking this course, you should have earned CCNA certification or be able to:

- Understand network fundamentals
- Implement LANs
- Implement Internet connectivity

The following Cisco courses can help you build the recommended skills and knowledge:

- Implementing and Administering Cisco Solutions (CCNA)
- Implementing and Operating Cisco Enterprise Network Core Technologies (ENCOR)