

## Designing Cisco Enterprise Networks (ENSLD)

- **Formato do curso:** Presencial e Live Training
- **Localidade:** Porto
- **Data:** 22 Nov. 2021 a 26 Nov. 2021
- **Preço:** 3695€
- **Horário:** Laboral - das 9h00 às 17h00
- **Duração:** 35 horas

The **Designing Cisco Enterprise Networks (ENSLD)** 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 exam, Designing Cisco Enterprise Networks (ENSLD 300-420), which is part of the CCNP® Enterprise and Cisco Certified Specialist – Enterprise Design certifications.

### **This course will help you:**

- Learn the skills, technologies, and best practices needed to design an enterprise network.
- Deepen your understanding of enterprise design including advanced addressing and routing solutions, advanced enterprise campus networks, WAN, security services, network services, and software-defined access SDA.
- Validate your knowledge and prepare to take the Designing Cisco Enterprise Networks v1.0 (ENSLD 300-420) exam.

## Destinatários

Presales and postsales network engineers that are involved in network design, planning, and implementation, Network administrators and designers that are responsible for designing and implementing the enterprise network.

## Pré-requisitos

Before taking this course, you should have earned [CCNA®](#) certification or be familiar with:

- Basic network fundamentals and building simple LANs

- Basic IP addressing and subnets
  - Routing and switching fundamentals
  - Basic wireless networking concepts and terminology
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## Objetivos

### **After completing 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 SD-Access fundamental concepts
  - Describe Cisco SD-Access Fabric Design
  - Design an Software-Defined Access (SD-Access) Campus Fabric based on customer requirements
  - Design service provider or enterprise-managed VPNs
  - Design a resilient WAN and 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 considerations when doing IP addressing design
  - Create an IPv6 addressing plan and Design an IPv6 addressing plan based on customer requirements
  - Plan an IPv6 deployment in an existing enterprise IPv4 network
  - Describe the challenges that you might encounter when transitioning to IPv6
  - Describe Network APIs and protocols
  - Describe Yet Another Next Generation (YANG), Network Configuration Protocol (NETCONF), and Representational State Transfer Configuration Protocol (RESTCONF)
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## Metodologia

- Instructor-led training: 5 days in the classroom with hands-on lab practice
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## Programa

- Designing EIGRP Routing
  - Designing OSPF Routing
  - Designing IS-IS Routing
  - Designing BGP Routing and Redundancy
  - Understanding BGP Address Families
  - Designing the Enterprise Campus LAN
  - Designing the Layer 2 Campus
  - Designing the Layer 3 Campus
  - Discovering the Cisco SD-Access Architecture
  - Exploring Cisco SD-Access Fabric Design
  - Designing Service Provider-Managed VPNs
  - Designing Enterprise-Managed VPNs
  - Designing WAN Resiliency
  - Examining Cisco SD-WAN Architectures
  - Cisco SD-WAN Deployment Design Considerations
  - Designing Cisco SD-WAN Routing and High Availability
  - Understanding QoS
  - Designing LAN and WAN QoS
  - Exploring Multicast with Protocol-Independent Multicast-Sparse Mode
  - Designing Rendezvous Point Distribution Solutions
  - Designing an IPv4 Address Plan
  - Exploring IPv6
  - Deploying IPv6
  - Introducing Network APIs and Protocols
  - Exploring YANG, NETCONF, RESTCONF, and Model-Driven Telemetry
  - Labs
    - Designing Enterprise Connectivity
    - Designing an Enterprise Network with BGP Internet Connectivity
    - Designing an Enterprise Campus LAN
    - Designing Resilient Enterprise WAN
    - Designing QoS in an Enterprise Network
    - Designing an Enterprise IPv6 Network
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**Este curso confere 40 créditos no programa Continuing Education da Cisco.**

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