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BY ORSYS

Course : Designing Cisco Enterprise Networks (ENSLD) v2.0

Official course, exam preparation 300-420 ENSLD

Practical course - 5d - 35h00 - Ref. UKM
Price : 4040 € E.T.

With this course, you'll deepen your knowledge of enterprise network design, including wired and wireless networks, SD-Access, VPNs, QoS, IPv6 and network programmability. This course takes an in-depth look at enterprise network design and expands on the topics covered in the course [[Implementing and operating Cisco Enterprise Network Core Technologies (ENCOR)".

Teaching objectives

At the end of the training, the participant will be able to:

- Designing EIGRP, OSPF and IS-IS internal routing for an enterprise network
- Design a network or LAN according to customer requirements, defining L2/L3 boundaries
- Design BGP and MP-BGP routing, with load balancing according to customer requirements
- Integrate Layer 2 and Layer 3 design principles into corporate campuses
- Understanding the fundamental concepts and design of Cisco SD-Access
- Design an SD-Access Fabric according to customer needs
- Design VPNs managed by an ISP or in-house, for a resilient WAN
- Describe Cisco SD-WAN architecture and design redundancy options
- Apply QoS principles for the WAN and corporate network
- Design an IPv6 addressing plan, deploy IPv6 and integrate network APIs (YANG, NETCONF, RESTCONF)

Intended audience
Network design engineers, network engineers, system administrators.

Prerequisites

Basic knowledge of networks, LAN implementation and connectivity recommended.

Practical details

Teaching methods

Training in French (or English on request). Official course material in English.

Course schedule

(1) Official program

- Design EIGRP routing.
- Design OSPF routing.
- Design IS-IS routing.
- Designing BGP routing and redundancy.
- Explore BGP address families and attributes.
- Design a corporate campus LAN.
- Design a campus in layers 2 and 3.
- Discover Cisco SD-Access architecture.
- Explore the design of the Cisco SD-Access fabric.
- Explore the strategy and design considerations for a Cisco SD-Access site.
- Discover VPNs managed by service providers.
- Design company-managed VPNs.
- Designing WAN resilience.
- Examine Cisco SD-WAN architectures.
- Review Cisco SD-WAN deployment design considerations.
- Examine NAT and hybrid design considerations for Cisco SD-WAN.
- Design Cisco SD-WAN routing and high availability.
- Explore quality of service (QoS).
- Design LAN and WAN QoS.
- Introduction to multicast.
- Explore multicasting with PIM-SM.
- Design point-of-appointment (POA) distribution solutions.
- Design an IPv4 addressing plan.
- Explore and deploy IPv6.
- Introduction to APIs and network protocols.
- Explore YANG, NETCONF, RESTCONF and model-driven telemetry.

(2) Official practical work

- Designing enterprise connectivity.
- Design a corporate network with Internet connectivity via BGP.
- Design a corporate campus LAN.
- Design a resilient enterprise WAN.
- Designing quality of service (QoS) in an enterprise network.
- Design an enterprise IPv6 network.

Options

Certification : 320 € HT

To obtain Cisco Certified Network Professional Enterprise (CCNP Enterprise) certification, you must pass the 350-401 ENCOR exam, as well as one of the following exams (your choice): 300-410 ENARSI, 300-415 ENSDWI, 300-420 ENSLD, 300-425 ENWLSD, 300-430 ENWLSI, 300-440 ENCC or 300-445 ENNA.
Comment passer votre examen ?

The certification option comes in the form of a voucher or invitation that will allow you to take the exam at the end of the training course.

Dates and locations

REMOTE CLASS
2026 : 1 June, 16 Nov.

PARIS LA DÉFENSE
2026 : 1 June, 16 Nov.