

# 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.

### PARTICIPANTS

Network design engineers, network engineers, system administrators.

### PREREQUISITES

Basic knowledge of networks, LAN implementation and connectivity recommended.

### TRAINER QUALIFICATIONS

The experts who lead the training courses are specialists in the subjects covered. They are approved by the publisher and certified for the course. They have also been validated by our teaching teams in terms of both professional knowledge and teaching skills for each course they teach. They have at least three to ten years of experience in their field and hold or have held positions of responsibility in companies.

### ASSESSMENT TERMS

Assessment of targeted skills prior to training.

Assessment by the participant, at the end of the training course, of the skills acquired during the training course.

Validation by the trainer of the participant's learning outcomes, specifying the tools used: multiple-choice questions, role-playing exercises, etc.

At the end of each training course, ITTCERT provides participants with a course evaluation questionnaire, which is then analysed by our teaching teams. Participants also complete an official evaluation of the publisher.

An attendance sheet for each half-day of attendance is provided at the end of the training course, along with a certificate of completion if the participant has attended the entire session.

## 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.

## TEACHING AIDS AND TECHNICAL RESOURCES

The teaching resources used are the publisher's official materials and practical exercises.

## TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the training course.

## ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you have specific accessibility requirements? Contact Ms FOSSE, disability advisor, at the following address: [psh-accueil@orsys.fr](mailto:psh-accueil@orsys.fr) so that we can assess your request and its feasibility.

## 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.