Designing Cisco Enterprise Networks (ENSLD) v2.0 Course

Course Duration: 40 Hours **Course Code: ENSLD-300-420**

1. Course Overview

The **Designing Cisco Enterprise Networks (ENSLD) v2.0** course equips you with the knowledge and skills to design advanced enterprise networks. It focuses on enterprise campus networks, wide area networks (WAN), software-defined access (SD-Access), software-defined WAN (SD-WAN), routing, and advanced addressing solutions. You will also explore design considerations related to security, management, virtualization, and network assurance to build scalable, reliable, and secure enterprise networks.

2. What You'll Learn?

By the end of this course, you will be able to:

- Design enterprise campus networks and WAN architectures.
- Apply design principles for Software-Defined Access (SD-Access) and Software-Defined WAN (SD-WAN).
- Develop advanced addressing and routing solutions.
- Design secure and scalable enterprise networks with integrated services.
- Evaluate enterprise network designs for high availability, scalability, and performance.
- Utilize automation and network assurance tools in design strategies.

3. Target Audience

This course is designed for:

- Network engineers
- Network designers
- Enterprise infrastructure architects
- IT professionals involved in enterprise network design and deployment
- Candidates preparing for the **CCNP Enterprise certification** and the **Cisco Certified Specialist - Enterprise Design** certification

4. Pre-Requisites

Before taking this course, you should have:

- Knowledge equivalent to the **Implementing and Operating Cisco Enterprise Network Core Technologies (ENCOR 350-401)** course
- Understanding of enterprise networking concepts such as routing, switching, and basic network design
- Familiarity with network management and security fundamentals

5. Course Content

Module 1: Advanced Enterprise Campus Networks Design

- Campus architecture and design principles
- High availability and redundancy considerations

Module 2: WAN for Enterprise Networks

- WAN design principles and architecture
- SD-WAN design and deployment considerations

Module 3: Software-Defined Access (SD-Access) Design

- SD-Access architecture
- Policy and segmentation design

Module 4: Advanced Addressing and Routing Solutions

- IPv4 and IPv6 addressing design
- Routing protocol design (OSPF, EIGRP, BGP)
- Route redistribution and summarization

Module 5: Security Services Design

- Secure segmentation strategies
- Network security design considerations

Module 6: Enterprise Network Management and Assurance

- Network management and monitoring tools
- Assurance techniques for scalable and resilient networks

Module 7: Enterprise Network Virtualization Design

- Virtualization concepts and technologies
- Network functions virtualization (NFV)