Cisco Certified Design Associate (CCDA) Network Design

2027 □□□□□ 4 – □□□□ 31
Orlando, Florida (USA)



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Ref: 20221691_144020 **Date:** 31 **Location:** Orlando, Florida (USA) **Fees:** 6600 GBP

Why This Course

Designing scalable, secure, and efficient enterprise networks is a critical skill for network professionals. This intensive 1-week program prepares participants for the Cisco Certified Design Associate CCDA certification by providing in-depth knowledge of network design principles, methodologies, and technologies. Attendees will learn to create robust network infrastructures aligned with business requirements, incorporating Cisco best practices for security, voice, and wireless integration.

What You'll Learn and Practice

By attending this course, you will be able to:

- Apply network design methodologies and Cisco Enterprise Architecture principles.
- Design campus, data center, and enterprise edge network modules.
- Develop efficient IP addressing schemes and select suitable routing protocols.
- Integrate security, voice, and wireless solutions into network designs.
- Build resilient and scalable network infrastructures to meet evolving business needs.

The Program Flow

Day 1: Network Design Fundamentals

- Introduction to network design methodologies
- Overview of Cisco Enterprise Architecture
- Requirements gathering and analysis
- Modular network design principles

Day 2: Campus Network Design

- Hierarchical campus design models
- Layer 2 and Layer 3 technologies in campus networks
- High availability and redundancy strategies
- Integrating campus network services



Day 3: Enterprise Edge and WAN Design

- WAN technologies and design considerations
- Branch office and remote site connectivity
- Internet edge design and security
- Data center connectivity options

Day 4: Addressing and Routing Design

- IPv4 and IPv6 addressing best practices
- Routing protocol selection and implementation
- BGP design for Internet connectivity
- Route summarization and redistribution strategies

Day 5: Network Services and Expansion

- Voice and video network design considerations
- Wireless network integration
- Network management and monitoring design
- Planning for scalability and future growth

Individual Impact

Participants will leave the program with:

- The ability to design robust, secure, and scalable enterprise networks.
- Enhanced skills to integrate security, voice, and wireless technologies.
- Expertise in developing efficient IP addressing and routing schemes.
- Confidence to tackle real-world network design challenges.

Organizational Impact

Organizations will benefit from:

- Well-designed, resilient network infrastructures that support business objectives.
- Improved integration of security, voice, and wireless systems.
- Efficient IP addressing and routing strategies across enterprise networks.
- Networks capable of scaling to meet future growth and technology demands.



Training Methodology

- Interactive lectures and hands-on design exercises
- Real-world case studies and scenario-based learning
- Group discussions and peer collaboration
- Practical application of Cisco design principles and best practices

Beyond the Course

By the end of this 1-week program, participants will be ready to:

- Apply Cisco network design principles to real-world enterprise environments.
- Build scalable, secure, and efficient network infrastructures.
- Integrate advanced technologies like voice, wireless, and security into designs.
- Prepare confidently for the Cisco CCDA certification exam.

