

Cisco Certified Design Associate (CCDA) Network Design

Telecom Engineering
Toronto (Canada)
14 - 18 Jul 2025

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Cisco Certified Design Associate (CCDA) Network Design

Ref: 321691_144008 **Date:** 14 - 18 Jul 2025 **Location:** Toronto (Canada) **Fees:** 4700 **Euro**

Course Description

This comprehensive 5-day course prepares participants for the Cisco Certified Design Associate CCDA certification. It covers fundamental network design principles, methodologies, and technologies used in Cisco enterprise networks. Participants will learn to design scalable, secure, and efficient network infrastructures using Cisco best practices.

Learning Objectives

- Understand and apply network design methodologies and the Cisco Enterprise Architecture
- Design campus, data center, and enterprise edge network modules
- Develop IP addressing schemes and select appropriate routing protocols
- Integrate security, voice, and wireless solutions into network designs
- Create resilient and scalable network infrastructures for various business requirements

Course Modules

Day 1: Network Design Fundamentals

- Introduction to network design methodologies
- Cisco Enterprise Architecture overview
- Network 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 considerations
- Campus network services integration

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

A graphic of a chessboard with several chess pieces (a king, a queen, a rook, and a pawn) on it. The text 'UK Training PARTNER' is overlaid on the image.

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- IPv4 and IPv6 addressing design best practices
- Routing protocol selection and design
- 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
- Scalability and future growth planning

Practical Wins for Participants

- Ability to design robust and scalable enterprise network architectures
- Skills to integrate security, voice, and wireless solutions effectively
- Expertise in creating efficient IP addressing and routing schemes
- Readiness to tackle real-world network design challenges

A graphic of a chessboard with several chess pieces. A large gold king piece is in the foreground, with a silver pawn and a silver knight behind it. In the background, there are concentric circles emanating from a point on the board.

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www.blackbird-training.com



training@blackbird-training.com



+44 7480 775526 / +44 7401 177335