

Cisco Certified Design Associate (CCDA) Training

COURSE CONTENT

GET IN TOUCH



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About Multisoft

Train yourself with the best and develop valuable in-demand skills with Multisoft Systems. A leading certification training provider, Multisoft collaborates with top technologies to bring world-class one-on-one and certification trainings. With the goal to empower professionals and business across the globe, we offer more than 1500 training courses, which are delivered by Multisoft's global subject matter experts. We offer tailored corporate training; project Based Training, comprehensive learning solution with lifetime e-learning access, after training support and globally recognized training certificates.

About Course

The CCDA training by Multisoft Systems is meticulously crafted to align with the latest industry standards and Cisco's evolving network design methodologies. It covers a wide array of topics, including understanding network design fundamentals, developing network designs that incorporate Cisco's best practices, and applying these principles to real-world scenarios.

Module 1: Design Methodologies

- ✓ Describe the Cisco Design lifecycle – PBM (plan, build, manage)
- ✓ Describe the information required to characterize an existing network as part of the planning for a design change
- ✓ Describe the use cases and benefits of network characterization tools (SNMP, NBAR, NetFlow)
- ✓ Compare and contrast the top-down and bottom-up design approaches

Module 2: Design Objectives

- ✓ Describe the importance and application of modularity in a network
- ✓ Describe the importance and application of hierarchy in a network
- ✓ Describe the importance and application of scalability in a network
- ✓ Describe the importance and application of resiliency in a network
- ✓ Describe the importance and application of concept of fault domains in a network

Module 3: Addressing and Routing Protocols in an Existing Network

- ✓ Describe the concept of scalable addressing
- ✓ Design an effective IP addressing scheme
- ✓ Identify routing protocol scalability considerations
- ✓ Design a routing protocol expansion

Module 4: Enterprise Network Design

- ✓ Design a basic campus
- ✓ Layer 3 protocols and redistribution
- ✓ Design a basic enterprise network

- ✓ Design a basic branch network

Module 5: Considerations for Expanding an Existing Network

- ✓ Describe design considerations for wireless network architectures
- ✓ Identify integration considerations and requirements for controller-based wireless networks
- ✓ Describe security controls integration considerations
- ✓ Identify traffic flow implications as a result of security controls
- ✓ Identify high-level considerations for collaboration (voice, streaming video, interactive video) applications
- ✓ Describe the concepts of virtualization within a network design
- ✓ Identify network elements that can be virtualized
- ✓ Describe the concepts of network programmability within a network design
- ✓ Describe data center components