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Designing for Cisco Internetwork Solutions (DESGN)

Duration: 5 Days

Course Content

This course is general approaches and technologies for network design, it promotes Cisco solutions in designing and implementing scalable internetworks. The early modular approaches to network design divided networks into access, distribution and core layers only, separately for the campus and the WAN part. The new Enterprise Composite Model facilitates designing, planning, implementing, operating and troubleshooting (PDIOT) networks by concentration on a certain module and on relations between the modules. Taking into account that most network solutions today (e.g. voice, video, storage networking, content networking) are typically overlay solutions spanning several modules, the composite modular approach seems even more relevant and is the main focus of this course

Course Objective

- Describe how the Enterprise Composite Network Model simplifies the complexity of modern networks
- Design the enterprise campus in a hierarchical modular fashion
- Design the enterprise WAN network
- Design a network addressing plan
- Select optimal routing protocols for the network
- Evaluate security solutions for the network
- Assess the design implications of voice transport across the network
- Recognize the network management criteria for the network

Course Outline

- Applying a Methodology to Network Design
- Structuring and Modularizing the Network
- Designing Basic Campus-Switched Networks
- Designing an Enterprise WAN
- Designing IP Addressing for the Network
- Selecting Routing Protocols for a Network
- Evaluating Security Solutions for the Network
- Designing Networks for Voice Transport
- Applying Basic Network Management Design Concepts

Prerequisites

The participant should successful completion of the Interconnecting Cisco Network Devices (ICND) courses, which are required for the Cisco Certified Network Associate (CCNA) certification, or the equivalent working knowledge and experience.

The students with Cisco Certified Network Professional (CCNP) or equivalent level of knowledge and experience will probably have the advantage of being able to participate more actively in classroom discussions.