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## Building Cisco Multilayer Switched Networks (BCMSN)

Duration: 5 Days

### Course Content

This course is a recommended training for individuals seeking certification as a Cisco Certified Network Professional. The course teaches students how to implement appropriate technologies to build scalable multilayer switched networks; building switched networks using multilayer switching technologies; create and deploy a global intranet; and implement basic troubleshooting techniques in environments that use Cisco multilayer switches for client hosts and services. Students will also be taught how to improve traffic flow, reliability, redundancy, and performance for LAN switching that are self-supported or transported via service provider. The purpose of this course is to achieve a mid-career professional level competency.

### Course Outline

- Introduction to Switching
  - Switching basics
  - VLAN Concepts
  - VTP
- Spanning Tree Protocol
  - IEEE 802.1d Concepts and Design
  - Spanning Tree Parameters
  - IEEE 802.1w Rapid Spanning Tree
  - IEEE 802.1s Multiple Spanning Tree
- Multi-layer Switching
  - Layer 3 and Layer 4 Switching
  - Multi-layer Switching Requirement and Implementation
- High-availability in Switched Network
  - HSRP
  - VRRP
  - GLBP
- QoS in Switched Network
  - Classification and Marking
  - DiffServ Concepts
  - QoS Configuration
- Security in Switched Network
  - Port Security Features
  - Security in Routing
- Multimedia Application in Switched Network
  - Understand Voice and Video Traffic
  - Multimedia Implementation in Switched Network
- Metro Ethernet
  - Metro Ethernet Concepts
  - Metro Ethernet Design