

## Course Specifications

Building Cisco  
Multilayer Switched  
Networks (BCMSN)  
v2.0

**Course number:** CCNP

**Course length:** 5 days

## Registration:

Micro Market Business Centre  
700 Progress Avenue  
Kingston, Ontario, K7M 4W9

**Toll Free:** 1-877-996-6622  
Local: (613) 634-8125 Kingston  
Fax: (613) 634-8130  
Email: [info@micromarket.on.ca](mailto:info@micromarket.on.ca)

**Register online:**  
[www.micromarket.on.ca](http://www.micromarket.on.ca)



## Building Cisco Multilayer Switched Networks (BCMSN)

*Links to [Registration](#) and [course dates](#)*

### Prerequisites:

To fully benefit from BCMSN, students must have the following prerequisite skills and knowledge:

- Basic router configuration
- Basic switch configuration
- Basic VLAN configuration
- Spanning Tree Protocol configuration
- Inter-Switch Link configuration
- Standard access list configuration

Note: These topics are covered in the Interconnecting Cisco Network Devices (ICND) course. A student enrolled in the Cisco Career Certification program must be a Cisco Certified Network Associate (CCNA) prior to taking this course. Students not seeking certification still must complete the prerequisite courses before enrolling in this course.

### Course Content:

Building Cisco Multilayer Switched Networks (BCMSN) v2.0 course is recommended training for individuals seeking certification as a Cisco Certified Network Professional. This 5-day course will enable learners to implement appropriate technologies to build scalable multilayer switched networks; build 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. BCMSNv2.0 course will also enable learners 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 Objectives:

After completing this course, students will be able to:

- After completing this course, students will be able to:
- Given a network design that includes multilayer switching over Fast Ethernet, deploy the required Cisco products and services that enable connectivity and traffic transport
- Implement the necessary services at each layer of the network to all users to obtain services in a working multilayer switched network
- Given a working multilayer switched network, control network traffic by implementing the necessary admission policy at each layer of the network topology
- When presented with an incorrectly working multilayer switched network, restore proper network operations through the use of Cisco devices and external management tools
- Explain how service providers implement transparent LAN services to deliver Ethernet connectivity to the customer site

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## Course Outline:

The following topics are covered in the BCMSN course:

- Module 1: Implementing Switches in the Network
- Module 2: Configuring VLANs and VTP
- Module 3: Implementing Spanning-Tree Protocol
- Module 4: Enhancing Spanning-Tree Protocol
- Module 5: Implementing Multilayer Switching in the Network
- Module 6: Improving Availability on Multilayer Switched Networks
- Module 7: Examining Cisco AVVID Services and Applications
- Module 8: Implementing QoS in Multilayer Switched Networks
- Module 9: Optimizing and Securing Multilayer Switched Networks
- Module 10: Understanding Metro Ethernet

## Who Should Attend:

- System Engineers
- Account Managers
- Channel Partner/Reseller
- Customers

The primary audiences for Building Cisco Multilayer Switched Networks are: Network administrators and technicians who are responsible for implementing or troubleshooting a multilayer switched network in an enterprise environment.

- CCNP and CCDP candidates
- CCIE routing/switching candidates

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