

## Cisco Certified Network Associate

### Other Information

#### CCNA

Days	5
Starting Time	9:00
Finish Time	4:30

Lunch & refreshments are included with this course.

### Course Description

CCNA Basics presents important networking fundamentals using the Open Systems Interconnect (OSI) seven layer model concepts; terminology and technologies are explained and illustrated using text and graphics animation. The course includes online assessments that allow learners to measure their progress throughout the learning experience.

### Cisco Exam

This course will help the student prepare for the following Cisco Certified Network Associate exam—

- CCNA candidates are required to sit and pass one exam (640-801)

### Pre-Requisites

There are no pre-requisites

### Outcomes

After completing this course, students will be able to:

- Describe computer hardware basics, binary and hexadecimal number systems, basic networking terminology, and internetworking concepts
- Identify the major components of a network system, including clients and servers, network interface cards (NICs), internetworking devices, media, and topologies
- Describe the functions, operations, and primary components of local area networks (LANs), wide-area networks (WANs), metropolitan-area networks (MANs), storage-area networks (SANs), content networks (CNs), and virtual private networks (VPNs)
- Describe the major network access methods and outline the key features of each
- Describe the functions and operations of switching technologies
- Explain the format and significance of each of the following components to a network system: IP addressing, classes, reserved address space, and subnetting
- Calculate valid subnetwork addresses and mask values so that user/network requirements are met when given an IP address scheme
- Explain the purposes of networking addresses, routing protocols, and routed protocols
- Describe the functions, operations, and primary components of WAN technologies

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- Describe the function, operation, and primary components required to provide remote access services
- Use available configuration tools to establish connectivity to the appropriate network device in order to complete the initial device configuration

### Course Outline

Ø **Module 1: Introduction to Networking**

Ø **Module 2: Network Types**

Ø **Module 3: Network Media**

Ø **Module 4: Switching Fundamentals**

Ø **Module 5: TCP/ IP**

Ø **Module 6: IP Addressing and Routing**

Ø **Module 7: WAN Technologies**

Ø **Module 8: Operating and Configuring Cisco IOS Devices**

Ø **Module 9: Managing your Network Environment**