

CCNA Boot Camp (CCNABC)

Who should attend

CCNA Candidates

Certifications

This course is part of the following Certifications:

- Cisco Certified Network Associate ([CCNA](#))

Duration: 5 Days

Prerequisites

Delegates should have a reasonable understanding of the basics of Routing and Switching technologies - they should be familiar with a PC, understand how to change an IP address on a PC, use the ipconfig command and understand the different types of Ethernet cable.

Preparation material can be found by registering as a user on the Cisco website and accessing the CCNA Prep Center.

Boot Camps can be an intensive learning experience. Complete beginners to Cisco networking should consider attending the following courses to gain their CCNA:

Interconnecting Cisco Network Devices Part 1 ([ICND1](#))

Interconnecting Cisco Network Devices Part 2 ([ICND2](#))

Course Objectives

After completing this course, delegates 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
- 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
- Build a functional configuration to support the specified network operational requirements, given a network design
- Use the appropriate show commands to display network operational parameters so that anomalies are detected
- Use the appropriate debug commands to monitor network operational parameters so that anomalies are detected
- Explain how bridging and switching operates
- Explain the purpose and operations of the Spanning-Tree Protocol
- Build a functional router configuration to support the specified network operational requirements, given a network design
- Describe the features and operation of static routing

Course Content

The CCNA Boot Camp combines ICND1, which offers fundamental networking knowledge and ICND2, which will provide an advanced look at troubleshooting and introducing security and wireless topics. Both courses incorporate a large proportion of hands-on lab experience. Boot Camps are concentrated classes and delegates should be prepared for additional work during the evenings and at weekends. Please note, those courses held in Ireland are only 7 days