



Enterprise Computing Solutions - Education Services

TRAINING OFFERING

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Implementing and Administering Cisco Solutions

CODE:	LENGTH:	PRICE:
CIS_CCNA	40 Hours (5 days)	Request Price

Description

The Implementing and Administering Cisco Solutions (CCNA) v1.0 course gives you a broad range of fundamental knowledge for all IT careers. Through a combination of lecture, hands-on labs, and self-study, you will learn how to install, operate, configure, and verify basic IPv4 and IPv6 networks. The course covers configuring network components such as switches, routers, and wireless LAN controllers; managing network devices; and identifying basic security threats. The course also gives you a foundation in network programmability, automation, and software-defined networking.

Objectives

Learn the knowledge and skills to install, configure, and operate a small- to medium-sized network
Gain a foundation in the essentials of networking, security, and automation

This course will help you: Earn 30 CE credits toward recertification

Audience

This course is designed for anyone seeking CCNA certification. The course also provides foundational knowledge for all support technicians involved in the basic installation, operation, and verification of Cisco networks.

Entry-level network engineer
Network administrator
Network support technician

The job roles best suited to the material in this course are: Help desk technician

Prerequisites

Before taking this course, you should have:

Basic computer literacy
Basic PC operating system navigation skills
Basic Internet usage skills
Basic IP address knowledge

There are no formal prerequisites for CCNA certification, but you should make sure to have a good understanding of the exam topics.

Programme

Identify the components of a computer network and describe their basic characteristics
Understand the model of host-to-host communication
Describe the features and functions of the Cisco Internetwork Operating System (IOS®) software
Describe LANs and the role of switches within LANs
Describe Ethernet as the network access layer of TCP/IP and describe the operation of switches
Install a switch and perform the initial configuration
Describe the TCP/IP Internet layer, IPv4, its addressing scheme, and subnetting
Describe the TCP/IP Transport layer and Application layer
Explore functions of routing
Implement basic configuration on a Cisco router
Explain host-to-host communications across switches and routers
Identify and resolve common switched network issues and common problems associated with IPv4 addressing
Describe IPv6 main features and addresses, and configure and verify basic IPv6 connectivity
Describe the operation, benefits, and limitations of static routing
Describe, implement, and verify Virtual Local Area Networks (VLANs) and trunks

Describe the application and configuration of inter-VLAN routing
Explain the basics of dynamic routing protocols and describe components and terms of Open Shortest Path First (OSPF)
Explain how Spanning Tree Protocol (STP) and Rapid Spanning Tree Protocol (RSTP) work
Configure link aggregation using EtherChannel
Describe the purpose of Layer 3 redundancy protocols
Describe basic WAN and VPN concepts
Describe the operation of Access Control Lists (ACLs) and their applications in the network
Configure Internet access using Dynamic Host Configuration Protocol (DHCP) clients and explain and configure Network Address Translation (NAT) on Cisco routers
Describe basic Quality of Service (QoS) concepts
Describe the concepts of wireless networks, which types of wireless networks can be built, and how to use Wireless LAN Controllers (WLCs)
Describe network and device architectures and introduce virtualization
Introduce the concept of network programmability and Software-Defined Networking (SDN) and describe smart network management solutions such as Cisco DNA Center™, Software-Defined Access (SD-Access), and Software-Defined Wide Area Network (SD-WAN)
Configure basic IOS system monitoring tools
Describe the management of Cisco devices
Describe the current security threat landscape
Describe threat defense technologies
Implement a basic security configuration of the device management plane
Implement basic steps to harden network devices

Test and Certification

This course helps you prepare to take the 200-301 Cisco® Certified Network Associate (CCNA®) exam. By passing this one exam, you earn CCNA certification

Session Dates

Su richiesta. Contattaci al n.ro +39 0471 099134 oppure via mail a training.ecs.it@arrow.com

Informazioni aggiuntive

[Questa formazione è disponibile anche come formazione in loco. Per favore, contattaci per saperne di più.](#)