

Implementing and Administering Cisco	CODICE
	DURATA
Solutions (CCNA)	PREZZO
	EXAM

DICE	DT0180
RATA	5 gg
EZZO	2.690,00 €
AM	

DESCRIZIONE

The Implementing and Administering Cisco Solutions (CCNA) v2.0 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.

This course helps you prepare to take the 200-301 Cisco® Certified Network Associate (CCNA®) exam. By passing this one exam, you earn the CCNA certification. This course also earns you 30 Continuing Education (CE) credits towards recertification.

TARGET

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.

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

- Entry-level network engineer
- Network administrator
- Network support technician
- Help desk technician

PREREQUISTI

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.

CONTENUTI

This class includes lecture sections and some self-study sections. In instructor-led classes, lectures are delivered in real-time, either in person or via video conferencing. In e-learning classes, the lectures are on recorded videos.

Section title — Learning mode

- Exploring the Functions of Networking --- Lecture
- Introducing the Host-to-Host Communications Model Lecture
- Operating Cisco IOS Software Lecture
- Introducing LANs Lecture
- Exploring the TCP/IP Link Layer Lecture
- Starting a Switch Lecture
- Introducing the TCP/IP Internet Layer, IPv4 Addressing, and Subnets Lecture
- Explaining the TCP/IP Transport Layer and Application Layer Lecture
- Exploring the Functions of Routing Lecture
- Configuring a Cisco Router Lecture
- Exploring the Packet Delivery Process Lecture
- Troubleshooting a Simple Network Lecture
- Introducing Basic IPv6 Lecture
- Configuring Static Routing Lecture
- Implementing VLANs and Trunks Lecture
- Routing Between VLANs Lecture
- Introducing OSPF Lecture
- Building Redundant Switched Topologies Self-study
- Improving Redundant Switched Topologies with EtherChannel Lecture
- Exploring Layer 3 Redundancy Self-study
- Introducing WAN Technologies Self-study
- Explaining Basics of ACL Lecture
- Enabling Internet Connectivity Lecture
- Introducing QoS Self-study
- Explaining Wireless Fundamentals Self-study
- Introducing Architectures and Virtualization Self-study
- Explaining the Evolution of Intelligent Networks Lecture
- Introducing System Monitoring Lecture
- Managing Cisco Devices Lecture

• Examining the Security Threat Landscape - Self-study

Lab Outline

- Get Started with Cisco Command-Line Interface (CLI)
- Observe How a Switch Operates
- Perform Basic Switch Configuration
- Implement the Initial Switch Configuration
- Inspect TCP/IP Applications
- Configure an Interface on a Cisco Router
- Configure and Verify Layer 2 Discovery Protocols
- Implement an Initial Router Configuration
- Configure Default Gateway
- Explore Packet Forwarding
- Troubleshoot Switch Media and Port Issues
- Troubleshoot Port Duplex Issues
- Configure Basic IPv6 Connectivity
- Configure and Verify IPv4 Static Routes
- Configure IPv6 Static Routes
- Implement IPv4 Static Routing
- Implement IPv6 Static Routing
- Configure VLANs and Trunk
- Troubleshoot VLANs and Trunk
- Configure Inter-VLAN Routing
- Implement Multiple VLANs and Basic Routing Between the VLANs
- Configure and Verify Single-Area OSPF
- Configure and Verify EtherChannel
- Improve Redundant Switched Topologies with EtherChannel
- Configure and Verify IPv4 ACLs
- Implement Numbered and Named IPv4 ACLs
- Configure a Provider-Assigned IPv4 Address
- Configure Static NAT
- Configure Dynamic NAT and Port Address Translation (PAT)
- Implement PAT
- Explore the Cisco DNATM Center
- Configure and Verify NTP
- Configure System Message Logging
- Create the Cisco IOS Image Backup
- Upgrade Cisco IOS Image
- Secure Console and Remote Access

- Enable and Limit Remote Access Connectivity
- Secure Device Administrative Access
- Configure and Verify Port Security
- Implement Device Hardening
- Log into and Monitor the WLC
- Configure an Open Wireless Network
- Define a RADIUS Server and Enable SNMP and Syslog
- Configure a WLAN to Use WPA2 PSK