Rumos valorizamos profissionais!

Implementing and Administering Cisco Solutions (CCNA)

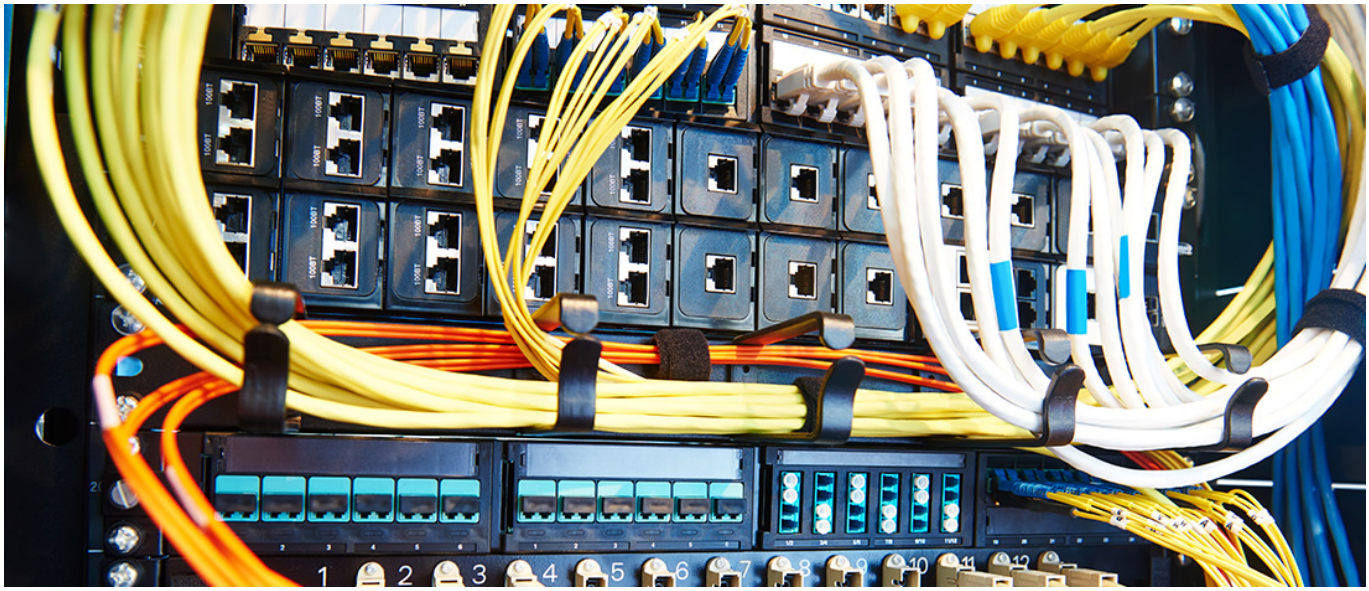
- **Formato do curso:** Presencial e Live Training
- **Localidade:** Live Training
- **Com certificação:** Cisco Certified Network Associate (CCNA)
- **Data:** 22 Mai. 2023 a 26 Mai. 2023
- **Preço:** 1850€
- **Promoção:** -10%
  Garanta a sua inscrição nesta edição com 10% desconto.
- **Horário:** Laboral - 09h00 - 17h00
- **Duração:** 35 horas

The **Implementing and Administering Cisco Solutions (CCNA)** course provides a broad range of fundamental knowledge for all IT careers. Through a combination of lecture and hands-on labs, you will learn how to install, operate, configure, and verify a basic IPv4 and IPv6 network.

The course covers configuring network components such as switches, routers, and Wireless LAN Controllers; managing network devices; and identifying basic security threats. Network programmability, automation, and software-defined networking are also covered at a foundational level.

This course **helps you prepare** to take the **200-301 Cisco Certified Network Associate** (CCNA) exam and **includes:**

- The certification exam
- Access to ondemand content made up of 33 multimedia elements, with an approximate duration of 21 hours (Rumos e-learning platform), which will help students consolidate learning and prepare better for the exam. This access will be available for 6 months after the end of the course



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[Formador Rumos distinguido pela Cisco com um Instructor Excellence Award]

Destinatários

Anyone looking to start a career in networking or wishing to achieve the Cisco 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

Pré-requisitos

Before taking this course, you should have:

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

Objectivos

After completing this course you should be able to:

- 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

Metodologia

Please note this course is a combination of Instructor-Led and Self-Paced Study – 5 days in the classroom and approx 3 days of self study.

Programa

- Exploring the Functions of Networking
- Introducing the Host-To-Host Communications Model
- Operating Cisco IOS Software
- Introducing LANs
- Exploring the TCP/IP Link Layer
- Starting a Switch
- Introducing the TCP/IP Internet Layer, IPv4 Addressing, and Subnets
- Explaining the TCP/IP Transport Layer and Application Layer
- Exploring the Functions of Routing
- Configuring a Cisco Router
- Exploring the Packet Delivery Process
- Troubleshooting a Simple Network
- Introducing Basic IPv6
- Configuring Static Routing
- Implementing VLANs and Trunks
- Routing Between VLANs
- Introducing OSPF
- Building Redundant Switched Topologies (Self Study)
- Improving Redundant Switched Topologies with EtherChannel
- Exploring Layer 3 Redundancy (Self Study)

- Introducing WAN Technologies (Self Study)
- Explaining Basics of ACL
- Enabling Internet Connectivity
- Introducing QoS (Self Study)
- Explaining Wireless Fundamentals (Self Study)
- Introducing Architectures and Virtualization (Self Study)
- Explaining the Evolution of Intelligent Networks
- Introducing System Monitoring
- Managing Cisco Devices
- Examining the Security Threat Landscape (Self Study)

Prossiga na sua certificação Cisco!

Este curso confere 30 créditos no programa Continuing Education da Cisco.

Se procura revalidar a sua certificação Cisco, conheça o programa Continuing Education. Como forma de incentivar os candidatos a manter, aumentar e a diversificar o seu conjunto de skills, a Cisco desenvolveu este Programa de Recertificação que oferece caminhos flexíveis para revalidar competências e certificações existentes.