

Cisco Certified Network Associate (CCNA)

General Objectives

The CCNA Exam Preparation Course was built with the main objective of respond to market needs and prepare trainees to obtain, with successful, Cisco CCNA certification, thus certifying their technical knowledge on installation, configuration and use of the most varied LAN services and the WAN.

Specific Objectives

At the end of the course, trainees will know:

- Detailed breakdown of the entire home screen.
- Demonstrate skills with regard to your critical thinking, resolution problems and ensure a working knowledge of network equipment;
- Demonstrate high technical skills in the area of networking, with the know-how and qualification required for the installation, configuration and operation of LAN networks and WAN interconnected by switches and routers;
- Validate skills by increasing the productivity of trainees, thus providing professional recognition and employability of themselves, through the highest Cisco Systems Certifications, recognized internationally, with obtaining the CCNA certification, the first step in career of CISCO certifications.

Recipients

This Course is addressed to all Windows users who need to know technical knowledge on installation, configuration and use of the most varied LAN services and the WAN.work effectively with Microsoft Excel spreadsheets.

Prerequisites

The prerequisites necessary to attend this course are:

- Have access to a computer or tablet with an Internet connection and a browser (program to browse the web), such as Chrome, Safari, Firefox or Internet Explorer.
- You can access the course from any computer (for example, at home and at the office), tablet or smartphone.

Workload

116 Hours

Program Content

Module 0 - Presentation of Platform and Method of Use

Módulo I – Building A Simple Network

- Exploring the Functions of Networking;
- Securing the Network;
- Understanding the line Host-to-Host Communications Model;
- Understanding TCP/IPs Internet Layer;
- Understanding TCP/IPs Transport Layer;
- Exploring the Packet Delivery Process;
- Understanding Ethernet;
- Connecting to an Ethernet LAN.

Módulo II - Ethernet Local Area Networks (Lanss)

- Understanding the Challenges of Shared LANs;
- Solving Network Challenges with Switched LAN Technology;
- Exploring the Packet Delivery Process;
- Operating Cisco IOS Software;
- Starting a Switch;
- Understanding Switch Security.

Módulo III - Maximizing The Benefits Of Switching

- Exploring Wireless Networking;
- Understanding WLAN Security;
- Implementing a WLAN.

Módulo IV - Local Area Network Connections

- Exploring the Functions of Routing Understanding Binary Basics;
- Constructing a Network Addressing Scheme;
- Starting a Router;
- Configuring a Router;
- Exploring the Packet Delivery Process;
- Understanding Router Security;
- Understanding Cisco Router and Security Device Manager;
- Using a Router as a DHCP Server;
- Accessing Remote Devices.

Módulo V - Wide Area Networks (Wans)

- Understanding WAN Technologies;
- Enabling the Internet Connection;
- Enabling Static Routing;
- Configuring Serial Encapsulation;
- Enabling Routing Information Protocol (RIP).

Módulo VI - Network Environment Management

- Discovering neighbors on the network;
- Managing Router Startup and;
- Configuration;
- Managing Cisco Devices.

Módulo VII - Small Network Implementation

- Introducing the Review Lab.

Módulo VIII - Medium-Sized Switched Network Construction

- Implementing VLANs and Trunks;
- Improving Performance with Spanning Tree;
- Routing Between VLANs;
- Securing the Expanded Network.

Módulo IX - Medium-Sized Routed Network Construction

- Reviewing Routing Operation;
- Implementing VLSM.

Módulo X - Single Area Ospf Implementation

- Implementing OSPF
- Troubleshooting OSPF

Módulo XI - Eigrp Implementation

- Implementing EIGRP
- Troubleshooting EIGRP

Módulo XII - Access Control Lists

- Introducing ACL operation
- Configuring and troubleshooting ACLs

Módulo XIII - Address Space Management

- Scaling the Network with NAT and PAT
- Transitioning to IPv6

Módulo XIV - AN Extension Into A WAN

- Establishing a Point-to-Point WAN Connection with PPP
- Establishing a WAN Connection with Frame Relay
- Troubleshooting Frame Relay WANs
- Introducing VPN Solutions

Methodology

This course is always with the trainer, who will even give the face-to-face training through the platform.

The trainee can intervene together with the trainer or with the other trainees as he does in the classroom.

The presentations and exercises will always be made available by the trainer at the end of each training session.

At the end of the course, you will receive a Professional Training Certificate if you attend at least 90% of the classes, carry out the proposed work and tests, participate in the online discussions and have a positive final evaluation.

This training is certified and recognized.