



Certification training

Cisco Certified Network Associate

CCNA

Preparation for Cisco exam 200-301

Training for the CCNA exam: how a network is built and addressed, how switches and routers work, then services, security and automation, applied to device commands and troubleshooting.

Delivered by Vertex Business, a professional certification training provider.



6 domains
per Cisco's blueprint



Configure and verify
and troubleshoot



From addressing
to automation



Plan with us
before you enrol

Program details and enrolment

vertexbusiness.xyz/programs/ccna?lang=en

A practical foundation for working in networking.



About the training

CCNA tests whether you can run a small-to-medium enterprise network: subnetting, VLANs and routing, device hardening and controller-based networking. The training ties each concept to its command and to the symptom you see when it fails.

The exam at a glance

120 minutes exam time	6 domains in the exam blueprint	3 years certification validity
---	---	--

Per Cisco's exam and certification pages for v1.1, accessed 15 October 2026. Cisco publishes neither the number of questions nor the passing score.

What the exam measures



Knowledge and configuration

Define a protocol, then choose the right command or setting for it.



Reading output

Interpret a routing table or show output to find the cause of a fault.

APPLIED ITEMS

How to work through a fault item

01

Locate the layer

Is it the link, the VLAN, the address or the routing?

02

Read the evidence

What does the output say about the actual state?

03

Make the smallest change

The setting that fixes the cause without breaking anything else.

For those who run networks day to day, or are getting ready to.



This suits you if you:

- ✓ **Work in IT support or a data center**
And want to understand the cause, not just restart the device.
- ✓ **Are a computing or IT graduate**
And need a recognised practical networking foundation.
- ✓ **Work hands-on with Cisco devices**
And want to organize what you learned on the job.
- ✓ **Manage IT and need network depth**
To discuss designs precisely with your team and vendors.



Roles at this level

Illustrative roles that use this knowledge daily; hiring requirements vary by employer.

- ✓ **Network administrator**
Adds users and devices, monitors links and adjusts configuration.
- ✓ **Network support technician**
Takes the ticket, isolates the fault and restores service.
- ✓ **Junior network engineer**
Implements the team's design: VLANs, routing and ACLs.
- ✓ **Data center technician**
Connects servers and switches and verifies connectivity.

ELIGIBILITY AND EXAM

Before you book the exam

No formal prerequisites

Cisco requires no prior qualification or exam for CCNA.

Useful experience

Cisco notes candidates often benefit from a year or more implementing and administering Cisco solutions.

Booking and renewal

The exam is booked through Pearson VUE; the certification is valid for three years and renewable.

Exam details on Cisco's official page [↗](#)

The six CCNA exam domains

Cisco's v1.1 blueprint divides the exam into six domains, from network fundamentals to automation.

Exam 200-301 blueprint

Network Fundamentals

Network components and link types

IPv4 addressing and subnetting

IPv6 addressing and address types

Wireless and virtualization basics

Network Access

VLANs and inter-switch trunks

Discovery protocols and EtherChannel

Loop prevention with STP

Wireless architecture and access points

IP Connectivity

Reading the routing table

How a router chooses a path

Static routing

Single-area OSPFv2

IP Services

NAT, DHCP and DNS

Time synchronization with NTP

SNMP and syslog

Remote device access over SSH

Security Fundamentals

Threats and mitigation

Passwords and device hardening

Access control lists

Port and wireless security

Automation and Programmability

Controller-based networking

REST APIs

Reading JSON data

Configuration management tools



A new version in February 2027

Cisco has announced that the last v1.1 test date is 2 February 2027 and that v2.0, with an updated blueprint, starts the next day. Decide which version you will sit before you start.

Source: Cisco's exam and certification pages and the Cisco Learning blog, accessed 15 October 2026. Items under each domain are an illustrative summary.

Every domain shows up in a real fault.

Each domain is studied in three steps: the concept, then the configuration on a device, then reading the output when it fails.

01 Addressing and switching

Subnet accurately, separate departments into VLANs, connect switches with trunks and see why STP blocks a port.

Applied example Finance users land on the guest network after a desk move.

02 Routing

Read the routing table, use static and default routes, run OSPF and verify neighbors.

Applied example A branch reaches the internet but not head office.

03 Services, security and automation

Address translation and assignment, ACLs, device hardening, and reading JSON from a REST API.

Applied example A new ACL stopped a service nobody meant to block.

LEARNING OUTCOMES

What you will be able to do

01 Subnet IPv4

And configure IPv6 addresses without a calculator.

02 Configure a switch and router

From base commands to VLANs and OSPF.

03 Troubleshoot faults

From the physical layer up to routing.

04 Order revision by weight

Starting with the domain that counts most.

Networking is learned through commands, not reading alone.



Simulation lab

Configure each feature on a simulator or lab gear, then change one thing and watch the effect.

Fixes the commands and trains you to read output.



Subnetting drills

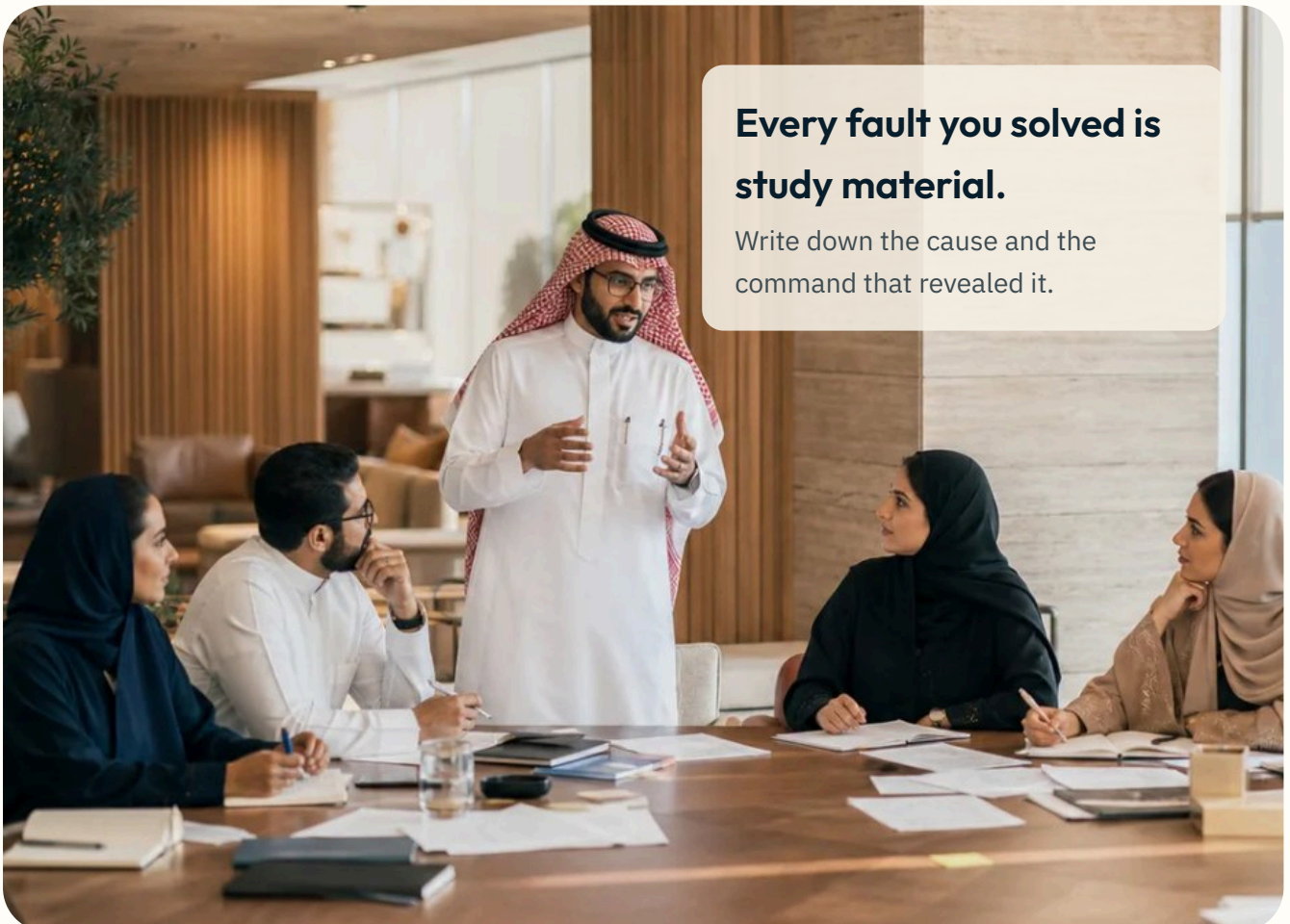
Short daily subnetting exercises until the calculation becomes fast.

A skill that recurs across several domains.



A plan that fits your time

Study format, dates and any accompanying materials are confirmed with the Vertex Business team before enrolment, based on your level and available time.



Every fault you solved is study material.

Write down the cause and the command that revealed it.



STUDY PLAN

A practical plan from your starting point to exam day.

01 Start with addressing

Move on once you can subnet in under a minute.

02 Build a small network

Two switches and a router: VLANs, trunks, then inter-VLAN routing.

03 Add routing

A static route, then OSPF; verify neighbors and the table.

04 Add services and security

DHCP, NAT and ACLs on the same network.

05 Close the smaller domains

Automation and wireless concepts and terms.

06 Revise by weight and error

Start with IP Connectivity, then redo every missed question.

Knowledge items

A protocol's definition, behavior and terms as used in the blueprint.

Configuration and fault items

Choosing the right command, or reading output that reveals the cause.

“What impressed me most was the trainer’s care that the information landed and that everyone had a chance to take part... and pointing out what matters most in the material.”

— CPTD learner about the trainer after a session · translated from Arabic · published on the Vertex site

“An excellent session. I learned important things about the certification and benefited a lot... everything was explained so clearly that I had no questions left.”

— SHRM learner after a live session · translated from Arabic · published on the Vertex site

“This achievement would not have been possible without the support, guidance and training I received... which prepared me for the exam.”

— Learner who earned CPTD · translated from Arabic · public post shown on the Vertex site



About Vertex Business

Vertex Business provides professional certification training in talent development, human resources and project management, alongside a professional diploma in medical research and team training for organizations. Training pairs Arabic explanation that keeps the exam’s English terminology with application to real workplace decisions.

[Company details](#) 



Booking the exam

Registration, fees and scheduling for the exam are handled by Cisco through Pearson VUE.

[Official Cisco CCNA page](#) 

COMPLETION CERTIFICATE AND PROFESSIONAL CREDENTIAL

Training completion requirements and the Vertex Business completion certificate are confirmed in the enrolment details.

The CCNA professional credential itself is awarded by Cisco under its own requirements, after you pass its assessment.



Discuss your goal and choose how to study.



Scan with your phone camera

YOUR NEXT STEP

- ✓ Training topics and outcomes
- ✓ A level that fits your experience
- ✓ Available study formats and dates
- ✓ Details and price confirmed before enrolment

Open the program page →

01

Open the program page

Scan the code or tap the link.

02

Discuss your goal

Use the WhatsApp button on the program page.

03

Confirm the details

Study format, dates and price before enrolment.

vertexbusiness.xyz/programs/ccna?lang=en