

## Get live, expert instruction from anywhere.



## CCNP Enterprise Boot Camp

Take your networking professional career to the next level! Infosec's authorized CCNP Enterprise Boot Camp is a comprehensive 10-day training that prepares you to earn one of Cisco's most prestigious certifications.

### Course description

This Cisco Certified Network Professional (CCNP) Enterprise Boot Camp provides two full weeks of in-depth training with Cisco-certified industry experts. You'll learn how to install, configure, troubleshoot and manage enterprise wired and wireless networks. During your first week of training, you'll learn to implement security principles within an enterprise network and how to overlay network design by using solutions such as SD-Access and SD-WAN. During your second week, you'll learn advanced routing and infrastructure technologies.

The boot camp also prepares you to pass the two exams needed to earn your CCNP Enterprise certification: Implementing and Operating Cisco Enterprise Network Core Technologies (ENCOR) and Implementing Cisco Enterprise Advanced Routing and Services (ENARSI).

### Who should attend

- » Network and system engineers
- » Network and system administrators
- » Network support technicians
- » Help desk technicians
- » Anyone looking to improve their Cisco networking skills

### Boot camp at a glance



#### What you'll learn

- ✓ Configure, troubleshoot and manage enterprise networks
- ✓ Implement security principles within an enterprise network
- ✓ Understand advanced routing and infrastructure technologies



#### Delivery methods

- ✓ Online
- ✓ In person
- ✓ Team onsite



#### Training duration

- ✓ 10-day boot camp (M-F over two weeks)
- ✓ 90-day extended access to all boot camp materials

## The hands-on cybersecurity training platform that moves as fast as you do

Infosec Skills boot camps are engineered to match the way today's cybersecurity professionals prefer to learn. In addition to days of live training from an experienced pro, you'll get unlimited access to 100s of additional hands-on cybersecurity courses and cyber ranges to help you advance your skills before, during and after your boot camp. Your Infosec Skills access extends 90 days past your boot camp, so you can take additional time to prepare for your exam, or get a head start on your next certification goal.



### Start training immediately

Prepare for your boot camp with immediate access to the Infosec Skills on-demand training library.



### Learn by doing in the cyber range

Put what you've learned into practice with 100s of browser-based labs and hands-on projects.



### 700+ IT and security courses

Earn CPEs and build new skills with 100s of additional training courses.

## What's included

- » 10 days of expert, live CCNP Enterprise training
- » Exam Pass Guarantee
- » Exam voucher
- » 100% Satisfaction Guarantee
- » Free 90-day Infosec Skills subscription (access to 1,400+ additional courses and labs)
- » 90-day extended access to all boot camp video replays and materials
- » Pre-study learning path
- » Knowledge Transfer Guarantee

### Prerequisites

- » Basic knowledge of how to implement LANs
- » Basic understanding of enterprise routing and wireless connectivity
- » Basic understanding of Python scripting
- » General understanding of network fundamentals
- » General understanding of how to manage and secure network devices

## What you'll do

- » Investigate the CAM
- » Analyze Cisco express forwarding
- » Troubleshoot VLAN and trunk issues
- » Tuning spanning tree protocol (STP) and configuring rapid spanning tree protocol (RSTP)
- » Configure multiple spanning tree protocol
- » Troubleshoot EtherChannel
- » Implement multi-area OSPF
- » Implement OSPF tuning
- » Apply OSPF optimization
- » Implement OSPFv3
- » Configure and verify single-homed EBGp
- » Implementing hot standby routing protocol (HSRP)
- » Configure virtual router redundancy protocol (VRRP)
- » Implement NAT
- » Configure and verify virtual routing and forwarding (VRF)
- » Configure and verify a generic routing encapsulation (GRE) tunnel
- » Configure static virtual tunnel interface (VTI) point-to-point tunnels
- » Configure wireless client authentication in a centralized deployment
- » Troubleshoot wireless client connectivity issues
- » Configure syslog
- » Configure and verify flexible NetFlow
- » Configuring Cisco IOS embedded event manager (EEM)
- » Troubleshoot connectivity and analyze traffic with ping, traceroute, and debug
- » Configure and verify Cisco IP SLAs
- » Configure standard and extended ACLs
- » Configure control plane policing
- » Implement local and server-based AAA
- » Writing and troubleshooting Python scripts
- » Explore JavaScript object notation (JSON) objects and scripts in Python
- » Use NETCONF Via SSH
- » Use RESTCONF with Cisco IOS XE

## Learn from experts

We don't just have great instructors, our instructors have years of industry experience and are recognized as experts. Over the past 15 years, we've helped tens of thousands of students get certified and advance their careers.

## Industry-leading exam pass rates

Infosec's courseware materials are always up to date and synchronized with the latest Cisco exam objectives. Our industry-leading curriculum and expert instructors have led to the highest pass rates in the industry. More than 93% of Infosec students pass their certification exams on their first attempt.

# What our students are saying

We had exactly what was needed to prepare us for our exams. The instructor was great. You could tell he loves teaching and was able to keep your attention and get the class to understand the material. I would recommend him as a teacher to anyone.

**Daniel Knight**

Hillphoenix

My instructor was excellent. He made sure that I not only knew the information in order to pass my exams. He took it upon himself to teach us real-world knowledge that is necessary to do my job today.

**Jeffrey McGill**

TIC Gums, Inc.

My instructor has thus far been the best I've had throughout my career (being in the military, that is a LOT of training). He was extremely knowledgeable on the material and was extremely skilled at teaching it.

**Shawn Tierney**

United States Air Force

## Skill up and get certified, guaranteed



### Exam Pass Guarantee

If you don't pass your exam on the first attempt, get a second attempt for free. Includes the ability to re-sit the course for free for up to one year.



### 100% Satisfaction Guarantee

If you're not 100% satisfied with your training at the end of the first day, you may withdraw and enroll in a different online or in-person course.



### Knowledge Transfer Guarantee

If an employee leaves within three months of obtaining certification, Infosec will train a different employee for free for up to one year.

**INFOSEC Skills**

LIVE BOOT CAMPS 

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## Week 1: Implementing and Operating Cisco Enterprise Network Core Technologies (ENCOR)

- » Examining Cisco enterprise network architecture
- » Understanding Cisco switching paths
- » Implementing campus LAN connectivity
- » Building redundant switched topology
- » Implementing layer 2 port aggregation
- » Understanding EIGRP
- » Implementing OSPF
- » Optimizing OSPF
- » Exploring EBGP
- » Implementing network redundancy
- » Implementing NAT
- » Introducing virtualization Protocols and techniques
- » Understanding virtual private Networks and interfaces
- » Understanding wireless principles
- » Examining wireless deployment options
- » Understanding wireless roaming and location services
- » Examining wireless AP operation
- » Understanding wireless client authentication
- » Troubleshooting wireless client connectivity
- » Introducing multicast protocols
- » Introducing QoS
- » Implementing network services
- » Using Network analysis tools
- » Implementing infrastructure security
- » Implementing secure access control
- » Understanding enterprise network Security architecture
- » Exploring automation and assurance using Cisco DNA center
- » Examining the Cisco SD-Access solution
- » Understanding the working principles of the Cisco SD-WAN solution
- » Understanding the basics of Python programming
- » Introducing network programmability protocols
- » Introducing APIs in Cisco DNA center and vManage

## Week 2: Implementing Cisco Enterprise Advanced Routing and Services (ENARSI)

- » Configure classic EIGRP and named EIGRP for IPv4 and IPv6
- » Optimize classic EIGRP and named EIGRP for IPv4 and IPv6
- » Troubleshoot classic EIGRP and named EIGRP for IPv4 and IPv6
- » Configure OSPFv2 and OSPFv3 in IPv4 and IPv6 environments
- » Optimize OSPFv2 and OSPFv3 behavior
- » Troubleshoot OSPFv2 for IPv4 and OSPFv3 for IPv4 and IPv6
- » Implement route redistribution using filtering mechanisms
- » Troubleshoot redistribution
- » Implement path control using PBR and IP SLA
- » Configure MP-BGP in IPv4 and IPv6 environments
- » Optimize MP-BGP in IPv4 and IPv6 environments
- » Troubleshoot MP-BGP for IPv4 and IPv6
- » Describe the features of MPLS
- » Describe the major architectural components of an MPLS VPN
- » Identify the routing and packet forwarding functionalities for MPLS VPNs
- » Explain how packets are forwarded in an MPLS VPN environment
- » Implement Cisco IOS DMVPNs
- » Implement DHCP
- » Describe the tools available to secure the IPV6 first hop
- » Troubleshoot Cisco router security features
- » Troubleshoot infrastructure security and services

### After your boot camp

Your Infosec Skills access extends 90 days past your boot camp, so you can take additional time to prepare for your exam, get a head start on your next certification goal or start earning CPEs.

## About Infosec

Infosec's mission is to put people at the center of cybersecurity. We help IT and security professionals advance their careers with skills development and certifications while empowering all employees with security awareness and phishing training to stay cyber-safe at work and home. Learn more at [infosecinstitute.com](https://infosecinstitute.com).