

Cisco 800-150 Exam Prep 2026

Practical Cisco 800-150 exam prep for IT professionals. Hands-on labs, config templates, and real-world scenarios.

[IT Certifications](#) Instructor: Brian Mitchell • 5 sections • 45 lessons • 14.00h total

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About this course

Preparing for the Cisco 800-150 exam can feel overwhelming with all the technical details to cover. This course cuts through the noise and focuses on the core areas you need to know for the 2026 version, helping you avoid common pitfalls.

You will learn how to configure and troubleshoot key Cisco solutions, with step-by-step guides and real scenarios. We will walk through hands-on labs, downloadable configuration templates, and problem-solving sessions.

Course curriculum

Foundations and Exam Overview

- **Decoding the 800-150 Exam Blueprint for 2026 (12m)**
We break down the official exam topics into a clear study plan, so you know exactly where to focus your time.
- **Essential Cisco IOS-XE CLI Navigation (18m)**
Learn the crucial commands for navigating the command line interface efficiently and safely.
- **Setting Up Your Virtual Lab Environment (22m)**
A step-by-step guide to building a free or low-cost lab using Cisco Modeling Labs or EVE-NG for hands-on practice.
- **Understanding Cisco's Security-first Networking (15m)**
Get to grips with the core security principles that underpin modern Cisco network design.
- **Key Terminology: From ACI to Zero Trust (9m)**
We define the critical acronyms and concepts you'll encounter throughout the exam and your career.
- **Configuring Basic Device Access and Hardening (25m)**
A practical lesson on securing device access with passwords, SSH, and role-based access control.
- **Building Your Personal Study Plan (8m)**
A downloadable template and strategy for scheduling your study sessions effectively.

Core Network Configuration

- **Implementing VLANs and Trunking Correctly (28m)**
Learn how to segment your network with VLANs and configure trunk links between switches.
- **Step-by-Step IP Addressing and Subnetting (32m)**
A problem-solving session to master IPv4 and IPv6 subnetting for real-world scenarios.
- **Configuring Static and Dynamic Routing (OSPF) (24m)**
We'll show you how to get routers talking to each other using both static routes and the OSPF protocol.
- **Setting Up First-Hop Redundancy with HSRP (14m)**
Learn how to configure HSRP to provide a reliable default gateway for your users.
- **Link Aggregation with EtherChannel (11m)**
Increase bandwidth and add redundancy by bundling switch ports together.
- **Configuring DHCP for Wired and Wireless Clients (19m)**
A practical guide to setting up DHCP scopes and options for automatic IP assignment.
- **Network Time Protocol (NTP) and Logging Setup (10m)**
Why accurate time and good logs are critical for troubleshooting and security.
- **Verifying Configuration with Show Commands (16m)**
A real case study analysis using 'show' commands to verify that your configuration is working as intended.
- **Troubleshooting Common Layer 2 Connectivity Issues (21m)**
We'll diagnose and fix common problems like duplex mismatches and spanning-tree loops.

Security Fundamentals Deep Dive

- **Implementing Access Control Lists (ACLs) (26m)**
A step-by-step guide to configuring standard and extended ACLs to filter traffic effectively.
- **Configuring Port Security on Switches (13m)**
Protect your network from unauthorized devices by locking down switch ports.
- **Securing the Wireless Network (WPA3 & AAA) (20m)**
Learn how to configure secure wireless authentication using modern standards and RADIUS.
- **Understanding and Configuring VPNs (IPsec) (29m)**
We'll build a secure site-to-site VPN tunnel to encrypt data between offices.
- **Implementing Basic Firewall Features (Zone-based) (23m)**
A practical lesson on controlling traffic flow between different network zones.
- **Device Hardening Checklist and Best Practices (12m)**
A downloadable checklist to ensure you've covered all the basics for a secure device.
- **Troubleshooting Security Policy Mismatches (17m)**
A problem-solving session focused on finding and fixing ACL and firewall rule conflicts.

Advanced Connectivity and Automation

- **Introduction to Software-Defined WAN (SD-WAN) (15m)**
Understand the value of SD-WAN and the basic components of a Cisco solution.
- **Configuring a Basic SD-WAN Edge Device (27m)**
We'll walk through the initial bootstrap and vSmart controller registration.
- **Understanding Quality of Service (QoS) for Voice and Video (22m)**
Learn how to prioritize critical traffic to ensure a smooth user experience.
- **Implementing QoS Policies Step-by-Step (25m)**
A hands-on lab to classify, mark, and shape traffic on a live interface.
- **Automating Device Configurations with Python (30m)**
A beginner-friendly introduction to using Python scripts to automate repetitive tasks.
- **Using REST APIs to Manage Your Network (18m)**
Learn how to interact with your Cisco devices programmatically using API calls.
- **Leveraging NETCONF and YANG for Configuration (16m)**
Discover the modern, structured way to configure network devices.
- **Troubleshooting SD-WAN and Overlay Networks (24m)**
A real case study on diagnosing issues in a multi-site SD-WAN deployment.
- **Monitoring Network Health with SNMP and Telemetry (19m)**
Set up proactive monitoring to catch problems before they impact users.
- **Integrating On-Prem and Cloud Solutions (12m)**
We'll discuss hybrid cloud concepts and how Cisco Meraki fits into the picture.

Final Review and Implementation

- **Full-Scale Lab: Building a Small Business Network (35m)**
We'll combine everything you've learned to build a complete network from scratch.

- **Full-Scale Lab: Adding Security and Remote Access (33m)**
We'll secure the network we just built and add VPN for remote workers.
- **Full-Scale Lab: Troubleshooting and Optimization (29m)**
We'll intentionally break things and then walk through the steps to fix them.
- **Common Exam Pitfalls and How to Avoid Them (14m)**
A review of the most frequently missed topics and tricky questions.
- **the Exam Command Output (16m)**
Learn to quickly parse 'show' command output for the critical information.
- **Time Management Strategies for Exam Day (10m)**
Tips and tricks to pace yourself and ensure you answer every question.
- **Final Pre-Exam Checklist (8m)**
A final downloadable checklist to run through before you book your test.
- **What to Do After You Pass the 800-150 (11m)**
We'll discuss potential next steps in your Cisco certification journey.
- **Setting Up Your Home Lab for Continued Learning (20m)**
A guide to building a permanent lab environment to keep your skills sharp.
- **Accessing Cisco Documentation and Support (9m)**
How to efficiently find the answers you need on Cisco's official support sites.
- **Course Wrap-Up and Next Steps (7m)**
A quick recap of the course and encouragement for your exam day.
- **Live Q&A Session Highlights (23m)**
We answer the top questions from other students who have taken the course.

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