



# Cisco - CIERS1 Cisco Expert-Level Training for CCIE Routing and Switching v5.0

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<b>Code:</b>	5098
<b>Length:</b>	5 days
<b>URL:</b>	<a href="#">View Online</a>

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## *This course includes Cisco Training Exclusives*

This intensive Boot Camp-style course is designed to help CCIE Routing & Switching candidates determine exactly where they are in their process of preparing for the CCIE R&S v5.0 practical exam and to fill technology gaps through lecture and labs.

The class is approximately 60% lecture and 40% hands-on labs, with extended hours of up to 13 hours per day. Upon completion of the technology lecture that includes best practices for applying and troubleshooting the technology, you will complete labs based on that technology. At the end of the class, you will perform two graded CCIE-level practice labs: a troubleshooting lab and a configuration lab.

Additionally, you will learn how to develop study plans and how to develop and use checklists and decision diagrams to formulate the mindset needed to pass the CCIE lab. With this information stored in your online portal, you can review the material covered in the CIERS1 class as frequently as you wish.

The Cisco 360 program has exclusive rights to run all labs on top of IOS over Linux (IOL). These are the same servers, same look and feel as the actual lab.

Note: To participate in this course and access your Cisco 360 portal and remote labs, it is highly recommended that you bring the laptop associated with your Cisco 360 Learning Program for CCIE account.

## **Skills Gained**

- Configuration and Troubleshooting of:
  - Dynamic Multipoint VPN (DMVPN)
  - Layer 2 concepts including Switches, HDLC and PPP
  - Open Shortest Path First (OSPF) for IPv4 and IPv6
  - Enhanced Interior Gateway Routing Protocol (EIGRP) for IPv4 and IPv6
  - Routing Information Protocol (RIP) v2
- IGP Route Redistribution
- Controlling IGP Updates with Route Maps and Distribute Lists
- BGP-4 Neighbor Relationships (including Route Reflectors and Confederations) for IPv4 and IPv6
- Filtering BGP Updates using Prefix Lists, AS Path Access Lists, Communities, and Route Maps
- Border Gateway Protocol (BGP) Attribute Manipulation

- Multiprotocol Label Switching and Layer 3 VPN
- Router QOS
- IP Multicast Routing using PIM Sparse and Dense Modes
- Network Services including Network Address Translation (NAT), Dynamic Host Configuration Protocol (DHCP), First Hop Redundancy Protocols, Network Time Protocols
- Network Troubleshooting methodologies and techniques

## Who Can Benefit

Candidates for the CCIE Routing & Switching practical exam who are three to six months out from the date.

*Note: This course, like all courses, is provided only to individuals sponsored by an employer (business, government agency, non-profit, etc.). Fee-paying members of the general public are not permitted to register. For more information, please contact us at 1-866-716-668.*

## Prerequisites

- CCIE Routing and Switching candidates are expected to have an in-depth understanding of the topics in the exam blueprints and are strongly encouraged to have three to five years of job experience before attempting certification
- CCNP Routing and Switching or equivalent job experience
- Passing score on CCIE Routing and Switching written exam #350-001

## Course Details

**Lab 1: Performance Assessment Lab 1 (360RSW05-LAB-GA01) (6-hour assessed lab)**

**Lab 2: BGP (intermediate to advanced topics)**

**Lab 3: MPLS**

**Lab 4: IP Multicast: Dense Mode**

**Lab 5: IP Multicast: Sparse Mode**

**Lab 6: QoS (includes MQC on routers and switches and Catalyst QoS)**

**Lab 7: Network Services**

**Lab 7: Performance Assessment Lab 2 (360RSW05-LAB-GA02 Troubleshooting Section) (3.5-hour assessed troubleshooting lab)**

**Lab 8: Performance Assessment Lab 2 (360RSW05-LAB-GA02 Configuration Section) (Six-hour assessed lab)**

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## 10. MPLS and Layer 3 VPN

## **11. IP Multicasting**

- DENSE Mode
- SPARSE Mode
- Attaining Universal Multicast Connectivity
- IANA Reserved Multicast Addresses

## **12. Quality of Service**

- Deploying Quality of Service on a Cisco Network
- QoS Simulation

## **13. Network Services - NTP, NAT, DHCP and FHRP**

## **14. 3-Hour Assessed Troubleshooting Lab (Part 1 - 360RSW05-LAB-GA02)**

- 11 Incidents (Trouble Tickets)

## **15. Six-Hour Configuration Assessed Lab (Part 2 - 360RSW05-LAB-GA02)**

- DMVPN and Serial Communications
- Switch Configuration
- IPv4 OSPF
- IPv4 EIGRP
- IPv4 RIP
- BGP
- IPv6 Routing
- Security
- QoS
- DHCP
- Address Administration
- Gateway Redundancy
- Multicast
- MPLS

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### Lab 8: Performance Assessment Lab 2 (360RSW05-LAB-GA02 Configuration Section) (Six-hour assessed lab)

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## Schedule (as of 3 )

Date	Location	
Aug 12, 2019 – Aug 16, 2019	Irving	<a href="#">Enroll</a>
Nov 18, 2019 – Nov 22, 2019	Arlington	<a href="#">Enroll</a>

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