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Learning Style: Virtual Classroom

Provider: Cisco

Difficulty: Intermediate

Course Duration: 5 Days

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

About this course:

CIERS1 Advanced Workshop I is approximately 40 percent lecture and 60 percent hands-on labs. It teaches students how to use an expert-level, problem-solving process, including options analysis, to develop expert-level skills. The workshops are part of a blended learning curriculum that aids learners in preparation for the Cisco CCIE Routing & Switching Lab Exam v5.0

The workshop includes three performance assessments, which are performed during the class, graded and returned with interactive Mentor Guide feedback. After the class, the students can schedule and perform a pre-assessment lab, a configuration assessment lab and a diagnostic assessment lab at a convenient time. Performance assessments and hands-on mini-labs are delivered on IOS on Linux (IOL) platform.

The average salary of a Cisco Systems Hardware Engineer is **$113,480** per year.

Course Objective:

Upon completion of this course, you will be able to:

- Describe the Cisco Expert-Level Training for CCIE R&S and explain how it addresses expert-level networking issues
- Discuss your baseline status for Cisco CCIE lab readiness
- Resolve expert-level Layer 2 and DMVPN task analysis, configuration and troubleshooting issues
- Resolve expert-level core task analysis, configuration, and troubleshooting issues
- Resolve expert-level BGP issues from both a configuration and troubleshooting perspective
- Resolve expert-level MPLS L3 VPN configuration tasks
- Resolve expert-level multicast task analysis, configuration, and troubleshooting issues
- Resolve expert-level IP connectivity issues regardless of whether they involve IPv4 or IPv6
- Resolve expert-level router MQC QoS task analysis, configuration, and troubleshooting issues
- Resolve expert-level Network Services task analysis, configuration, and troubleshooting issues
- Resolve expert-level multitopic core and advanced task analysis, configuration, and troubleshooting issues

Audience:

- Channel Partners
- Customers
- Employees

Prerequisite:

It is recommended, but not required, to have the following skills and knowledge before attending this course:

- Layer 2 and Layer 3 switching skills
- IPv6 fundamentals
- RIP, EIGRP, and OSPF configuration skills for both IPv4 and IPv6
- BGP configuration skills
- Multicast configuration skills
- QoS configuration skills
- Intermediate-level troubleshooting skills for all technologies listed

To gain the prerequisite skills and knowledge, learners must have passed the CCIE Routing and Switching written exam.

Course Outline:

- **Course Introduction**
- **Module 1: Cisco Expert-Level Training for CCIE R&S**
- **Module 2: Core Task Assessment (includes Performance Assessment Lab 360RSW05-LAB-CA01)**
- **Module 3: Core Task Analysis and Configuration**
- **Module 4: BGP Task Analysis and Configuration**
- **Module 5: MPLS Layer 3 VPNs**
- **Module 6: Multicast Task Analysis and Configuration**
- **Module 7: Router MQC QoS Task Analysis and Configuration**
- **Module 8: Cisco Network Services Task Analysis and Configuration**
- **Module 9: Cisco Network Troubleshooting**
- **Core and Advanced Task Assessment (consists of Performance Assessment Lab 360RSW05-LAB-GA02)**
- **Appendix A: Cisco Catalyst Switch QoS Task Analysis and Configuration**

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