CCIE Building Cisco Routing and Switching

- **Course Number:** 350-001
- **Length:** 3 Days

Course Overview

For over ten years, CCIE certification has identified internetworking professionals with the highest level of expertise, those capable of tackling the most challenging assignments in their field. CCIE certification is attained in technical specialties referred to as tracks.

Our course curriculum strictly adherers to all of Cisco CCIE exam objectives and is presented to you by leading certification instructors who are concise and engaging in their delivery. You will learn both the theory and practical aspects of the technologies as well as gain insight into the industry with their expert instruction.

Prerequisites

At least three years of experience implementing, deploying, operating, and troubleshooting complex Cisco networks is recommended. Familiarity with Cisco hardware and Cisco networking solutions, extensive knowledge of LAN and WAN technologies, and an in-depth understanding of the protocols used on routers, switches, bridges, and security devices is required.

Audience

Cisco Certified Internetwork Expert is the highest level certification for networking professionals, and certifies an individual's networking skills at the expert level. Candidates who pass both of the required exams, one written and one in a hands-on lab environment, receive a CCIE certificate from Cisco Systems.

Course Outline

Level 1

1.1 Introduction
1.2 Fundamentals of Cisco IOS Based Device
1.3 Common Components – External
1.4 Common Components – Internal
1.5 Connecting for the First Time
1.6 Upgrading the IOS Software
1.7 Password Recovery
1.8 Management Tools
1.9 Review

Level 2

1.1 the OSI Model
1.2 Land Connectivity
1.3 Ethernet Access Control
1.4 Token Ring
1.5 Other LAN Technologies
1.6 Repeaters and Bridges
1.7 Spanning Tree Switches
1.8 Routing

Module 3 1h 44m 44s

1.1 Advanced TCP/IP Theory
1.2 Internet Connection Management Protocol
1.3 RIP – Routing Information Protocol
1.4 OSPF
1.5 OSPF – Labs
1.6 EIGRP – Enhanced Interior Gateway Rout
1.7 IGRP – Interior Gateway Routing Protocol
1.8 Intermediate System to Intermediate System
1.9 BGP – Border Gateway Protocol

Module 4 19m 11s

1.1 Static Routing
1.2 Dial on Demand Routing
1.3 WAN – Wide Area Network Technologies
1.4 Physical Lines
1.5 Modems
1.6 Circuits
1.7 Multicasting
1.8 IGMP

Module 5 6m 38s

1.1 Multi-Service Technologies
1.2 Codec's
1.3 SS7 – RTP/RTCP

Module 6 6m 27s

2.1 Security – Access Control Lists

2.2 Layer 2 Security

2.3 Login Security

Module 7 15m 53s

3.1 Quality of Service

3.2 Mechanisms

3.3 Queuing Mechanisms

Course Review

4.1 Study Prep and Course Review

Total Duration: 4h 27m