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CISCO 8000 SERIES ROUTERS ESSENTIALS V1.0

CISCO 8000 SERIES ROUTERS ESSENTIALS V1.0

The Cisco 8000 Series Routers Essentials (SP8KE) v1.0 course introduces you to the features and functions of the Cisco® 8000 Series router platforms. Through a combination of lectures and labs, you will gain an understanding of all major aspects of the platform, including hardware, software, Layer 2 and Layer 3 services, Quality of Service (QoS) features, network virtualization, and programmability.

How you'll benefit

This class will help you:

- Increase your experience with the Cisco 8000 Series system
- Describe and implement the Cisco 8000 Series system and its components
- Gain hands-on experience with the Cisco 8000 Series system in a lab setting

Why Attend with Current Technologies CLC

- Our Instructors are in the top 10% rated by Cisco
- Our Lab has a dedicated 1 Gig Fiber Connection for our Labs
- Our Labs run up to Date Code for all our courses

Who Should Attend

The primary audience for this course is as follows:

- System Engineers
- Technical Support Personnel
- Channel Partners and Resellers

Course Duration
5 days
Course Price
$4,195.00 or 42 CLCs
Methods of Delivery
• Instructor Led
• Virtual ILT
• On-Site

OUTLINE

Module 1: Cisco 8000 Series Hardware Fundamentals

Module 2: Cisco 8000 System Architecture

Module 3: Packet Flow Through the Cisco 8000 Series Router

Module 4: Traffic Management and QoS on Cisco 8000 Routers

Module 5: SONiC Basics

Module 6: Cisco IOS XR Software Architecture

Module 7: Cisco IOS XR Software Installation

Module 8: Automatic Provisioning

Module 9: Cisco IOS XR MPLS

Module 10: Introducing Segment Routing

Module 11: Segment Routing TI-LFA and Traffic Engineering

Module 12: EVPN Layer 2 Basics

Module 13: Layer 3 VPNs

Module 14: Advanced SR-TE Features

Module 15: SRv6

Module 16: Telemetry

Module 17: Cisco IOS XR Programmability

Module 18: Application Hosting Overview

LAB OUTLINE

- **Lab 1: Investigate and Monitor Cisco 8000 Series Hardware**

- **Lab 2: Troubleshoot Traffic Through the Cisco 8000 Router**

- **Lab 3: Cisco IOS XR Software Installation**

- **Lab 4: Configure and Verify Zero Touch Provisioning (ZTP)**

- **Lab 5: Configure and Verify Multiprotocol Label Switching**

- **Lab 6: Configure and Verify Segment Routing (SR)**

- **Lab 7: Configure and Verify SR TI-LFA Using IS-IS**

- **Lab 8: Configure and Verify SR TI-LFA Using OSPF**

- **Lab 9: Configure and Verify SR-TE Using IS-IS**

- **Lab 10: Configure and Verify SR-TE Using OSPF**

- **Lab 11: Configure and Verify Basic EVPN**

- **Lab 12: Configure and Verify Layer 3 VPN**

- **Lab 13: Configure and Verify On-Demand Next-Hop (ODN) and Flexible Algorithm**

- **Lab 14: Configure and Verify Segment Routing over IPv6 (SRv6)**

- **Lab 15: Configure and Verify Model-Driven Telemetry**

- **Lab 16: Configure and Verify Devices by Using Model-Driven Programmability**

- **Lab 17: Configure and Verify Application Hosting Within a Docker Container**

Current Technologies CLC   Configuring and Administering Cisco WEBEX