

Implementing the Cisco NCS540 Series Routers (NCS540HWE)

Implementing the Cisco NCS540 Series Routers (NCS540HWE)

The Implementing the Cisco NCS 540 Series Routers (NCS540HWE) training teaches you how to deploy Cisco Network Convergence System (NCS) 540 Series routers in a network environment. You will be introduced to the features and functions of the Cisco NCS 540 series platforms, system architecture, services implementation, quality of service (QoS), system security, model-driven telemetry, and programmability. This training also earns you 40 Continuing Education (CE) credits towards recertification.

How you'll benefit

This class will help you:

- Gain hands-on experience deploying Cisco NCS 540 Series routers in a network environment
- Qualify for professional network job roles
- Earn 40 CE credits towards recertification

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
- Network Engineers
- Field Engineers
- Technical Support Personnel
- Channel partners, resellers System Engineers
- Network Engineers
- Field Engineers
- Technical Support Personnel
- Channel Partners
- Channel Resellers

Prerequisites

Before taking this offering, you should have:

- Knowledge of core Cisco networking technologies
- Understanding of implementing and operating Cisco networking solutions
- Recognition of general networking concepts and protocols

Course Duration

5 days

Course Price

\$4,395.00 or 44 CLCs

Methods of Delivery

- Instructor Led
- Virtual ILT
- On-Site

- Basic knowledge of router installation and some experience with installation tools
- Routing protocol configuration experience with border gateway protocol (BGP), IS-IS, and OSPF

OUTLINE

Module 1: Cisco NCS 540 Series Hardware Overview

Module 2: Cisco NCS 540 System Architecture

Module 3: Cisco NCS 540 QoS Architecture

Module 4: Timing and Synchronization

Module 5: Cisco NCS 540 xHaul Design

Module 6: Cisco IOS XR Software Fundamentals

Module 7: Cisco IOS XR Software Installation and Upgrade

Module 8: Cisco IOS XR Software System Security

Module 9: Segment Routing Fundamentals

Module 10: Segment Routing Topology-Independent Loop-Free Alternate

Module 11: Segment Routing Traffic Engineering

Module 12: Advanced Segment Routing Traffic Engineering Features

Module 13: Segment Routing IPv6

Module 14: Layer 3 MPLS VPN Implementation with Cisco IOS XR Software

Module 15: Layer 2 VPNs and Ethernet Services Fundamentals

Module 16: Cisco IOS XR Software EVPN Operation and Implementation

Module 17: Cisco IOS XR Software Programmability

Module 18: Model-Driven Telemetry

LAB OUTLINE

Lab 1: Configure and Verify NTP

Lab 2: Cisco IOS XR Software Installation

Lab 3: Configure and Verify MPP

Lab 4: Configure and Verify uRPF

Lab 5: Configure and Verify Segment Routing

Lab 6: Configure and Verify SR TI-LFA Using IS-IS

Lab 7: Configure and Verify SR TI-LFA Using OSPF

Lab 8: Configure and Verify SR TE Using IS-IS

Lab 9: Configure and Verify SR TE Using OSPF

Lab 10: Configure and Verify ODN and Flexible Algorithm

Lab 11: Configure and Verify SRv6

Lab 12: Configure and Verify Layer 3 VPN

Lab 13: Configure and Verify EVPN VPWS

Lab 14: Configure and Verify Devices by Using Model-Driven Programmability

Lab 15: Configure and Verify Model-Driven Telemetry