

Designing and Implementing Cisco Service Provider Cloud Network Infrastructure (SPCNI)

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The Designing and Implementing Cisco Service Provider Cloud Network Infrastructure training teaches you how to design and implement virtualization cloud infrastructures in a service provider network. You will learn about virtualized network function infrastructures and how to use programmability and orchestration to manage virtualization cloud infrastructures. You will also learn about cloud computing and implementation of cloud interconnect and data center interconnect solutions. In addition, you will learn how to monitor and secure virtualization cloud infrastructures and provide optimization and high availability within the infrastructures.

This training prepares you for the 300-540 SPCNI v1.0 exam. If passed, you earn the Cisco Certified Specialist – Service Provider Cloud Network Infrastructure certification and satisfy the concentration exam requirement for the Cisco Certified Networking Professional (CCNP) Service Provider certification. This training also earns you 40 Continuing Education (CE) credits toward recertification.

How you'll benefit

This class will help you:

- Design and implement virtualization cloud infrastructures in a service provider network
- Learn about virtualized network function infrastructures
- Learn how to use programmability and orchestration to manage virtualization cloud infrastructures
- Learn about cloud computing
- Learn about cloud interconnect and data center interconnect solutions
- Learn how to implement various interconnect solutions
- Learn how to monitor and secure virtualization cloud infrastructures and provide optimization and high availability within the infrastructures
- Earn 40 CE credits toward 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
- Technical Support Personnel
- Channel Partners
- Resellers

Course Duration

5 days

Course Price

\$4,300.00 or 44 CLCs

Methods of Delivery

- Instructor Led
- Virtual ILT
- On-Site

Prerequisites

The knowledge and skills you are expected to have before attending this training are:

- Routing protocol configuration experience with BGP, Intermediate System-to-Intermediate System (IS-IS), and Open Shortest Path First (OSPF)
- Knowledge of Layer 2 IEEE switching and related protocols, including MPLS configuration and troubleshooting of Cisco routers in a large network environment

OUTLINE

Module 1: Cisco NFV Infrastructure

Module 2: Cloud Computing

Module 3: Service Provider Model-Driven Programmability

Module 4: Network Orchestration using NSO

Module 5: Container Orchestration

Module 6: Cisco Crosswork Network Controller

Module 7: Cloud Interconnect Solutions

Module 8: Data Center Interconnect Solutions

Module 9: Service Provider High Availability

Module 10: Service Provider Core Optimization

Module 11: Service Provider Performance Monitoring

Module 12: Service Provider Control Plane Security

Module 13: Service Provider Data Plane Security

LAB OUTLINE

Lab 1: Deploy a VNF Using OpenStack

Lab 2: Configure and Verify Devices by Using Model-Driven Programmability

Lab 3: Network Orchestration using NSO

Lab 4: Configure and Verify Application Hosting Within a Docker Container

Lab 5: Configure and Verify Layer 3 VPN

Lab 6: Configure and Verify EVPN VPWS

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 ODN and Flexible Algorithm

Lab 12: Configure and Verify Model-Driven Telemetry

Lab 13: Implement BGP Security

Lab 14: Implement RTBH Filtering