

SPNGN2 (BUILDING CISCO SERVICE PROVIDER NEXT GENERATION NETWORKS, PART 2)

Objetivo

The Building Cisco Service Provider Next-Generation Networks, Part 2 course is associated with the CCNA Service Provider certification. The course is a 5-day Instructor Lead Training course that provides network engineers and technicians the knowledge and skills necessary to implement and support a service provider network. The course provides knowledge of the major components of a service provider network construction and the Cisco service provider IP NGN architecture. The course also includes classroom activities with remote labs that are useful to gain practical skills for deploying Cisco IOS / IOS XE and Cisco IOS XR software features to operate and support service provider networks.

Público Alvo

Channel Partner / Reseller Customer Employee

Pré-Requisitos

SPNGN1

Carga Horária

40 horas (5 dias).

Conteúdo Programático

Module 1: Service Provider Network Architecture
Lesson 1: Introduction to Service Providers
Lesson 2: Cisco IP NGN Architecture
Module 2: Advanced LAN Switching
Lesson 1: Implementing VLANs and Trunks
Lesson 2: Spanning Tree Protocol Enhancements
Lesson 3: Routing Between VLANs
Lesson 4: First Hop Redundancy Protocols
Module 3: Internal Service Provider Traffic Forwarding
Lesson 1: Link-State Routing Protocols
Lesson 2: Implementing OSPF
Lesson 3: Implementing IS-IS
Lesson 4: Implementing Route Redistribution
Lesson 5: MPLS Basics
Module 4: External Service Provider Routing

Lesson 1: Introducing BGP
Lesson 2: Understanding BGP Path Attributes
Lesson 3: Establishing BGP Sessions and Processing BGP Routes
Lesson 4: Configuring Basic BGP
Module 5: ACLs and IP Address Translation
Lesson 1: Implementing Access Control Lists
Lesson 2: Transitioning to IPv6
Module 6: Cisco Service Provider Platforms
Lesson 1: Cisco Hardware Platform Placement
Lesson 2: Describing Cisco IOS XR Software Architecture and Features
Lesson 3: Explaining Software Maintenance Operations on Cisco IOS XR and Cisco IOS XE
Lesson 4: Explaining Configuration Management with Cisco IOS XR Software