

SPNGN1 (BUILDING CISCO SERVICE PROVIDER NEXT GENERATION NETWORKS, PART 1)

Objetivo

The Building Cisco Service Provider Next-Generation Networks, Part 1 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 with the basic knowledge and skills necessary to support a service provider network. The course provides knowledge of the major components of a network and helps learners to understand how service provider networks function. The course introduces IP Next-Generation Network (IP NGN) architecture that helps service providers to build modern, scalable and reliable networks. The course also includes classroom activities with remote labs that are useful to gain practical skills for deploying basic 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

Carga Horária

40 horas (5 dias).

Conteúdo Programático

Module 1: IP Fundamentals
Lesson 1: Defining Functions of Networking
Lesson 2: Introducing TCP/IP Layers and the OSI Reference Model
Lesson 3: IP Addressing Overview
Lesson 4: Explaining IP Addressing and Subnets
Lesson 5: Describing the TCP/IP Transport Layer
Module 2: Basic LAN Switching
Lesson 1: Understanding Ethernet
Lesson 2: Connecting to an Ethernet LAN
Lesson 3: Using Switched LAN Technology
Lesson 4: Operating a Cisco Switch
Lesson 5: Performing Switched Network Optimizations
Lesson 6: Troubleshooting Switch Issues
Module 3: Basic IP Routing
Lesson 1: Exploring the Functions of Routing

Lesson 2: Introduction to the Cisco IOS XR
Lesson 3: Implementing Basic Routing
Lesson 4: Implementing EIGRP
Module 4: Connectivity Technologies
Lesson 1: Describing Access Technologies
Lesson 2: Introducing Service Provider Access, Edge, and Transport Technologies
Lesson 3: Enabling the WAN Internet Connection
Hardware Lab 5: Implement Internet Connectivity
Lesson 4: WAN Encapsulation
Lesson 5: Introducing VPN
Module 5: Network Management and Security
Lesson 1: Collecting Network Device Data
Lesson 2: Configuring Network Management Tools
Lesson 3: Explaining Network Security
Lesson 4: Understanding Switch Security
Lesson 5: Understanding Cisco Router Security
Lesson 6: Implementing AAA