

# 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