

SPCORE (IMPLEMENTING CISCO SERVICE PROVIDER NEXT-GENERATION CORE NETWORK SERVICES)

Objetivo

This course is designed to help students prepare for Cisco CCNP SP certification. It introduces the concepts of Multi Protocol Label Switching (MPLS) and describes its implementation as well as exploring the MPLS Traffic Engineering (MPLS-TE) services built on the MPLS technology. The course enables learners to use the technology principles of basic Quality of Service, and Quality of Service with MPLS to implement advanced features and functions. The focus of the course is on technology issues of MPLS and on best practices for implementing QoS from the Service Providers perspective and how to configure some of those features and functions in an existing routed environment.

Público Alvo

Channel Partner / Reseller Customer Employee

Pré-Requisitos

SPNGNG1, SPNGN2, SPROUTE and SPADVROUTE Recommended

Carga Horária

40 horas (5 dias).

Conteúdo Programático

Module 1: Multiprotocol Label Switching
Lesson 1: Introducing Cisco IP NGN Architecture
Lesson 2: Introducing MPLS
Lesson 3: Introducing MPLS Applications
Lesson 4: Label Distribution Protocol
Lesson 5: Introducing MPLS Forwarding
Lesson 6: Operating MPLS Forwarding
Lesson 7: Implementing MPLS in the Service Provider Core
Module 2: MPLS Traffic Engineering
Lesson 1: Introducing MPLS Traffic Engineering Components
Lesson 2: MPLS Traffic Engineering Operations
Lesson 3: Implementing MPLS TE
Lesson 4: Protecting MPLS TE Traffic
Module 3: QoS in the Service Provider Network
Lesson 1: Understanding QoS

Lesson 2: Implementing QoS in the SP Network
Hardware Lab 3: The Need for QoS
Lesson 3: Implementing MPLS Support for QoS
Module 4: QoS Classification and Marking
Lesson 1: Understanding Classification and Marking
Lesson 2: Using Modular QoS CLI
Lesson 3: Implementing Advanced QoS Techniques
Module 5: QoS Congestion Management and Avoidance
Lesson 1: Managing Congestion
Lesson 2: Implementing Congestion Avoidance
Module 6: QoS Traffic Policing and Shaping
Lesson 1: Understanding Traffic Policing and Shaping
Lesson 2: Implementing Traffic Policing
Lesson 3: Implementing Traffic Shaping