Implementing Cisco Service Provider Next-Generation Core Network Services (SPCORE) 1.2 (CS-SPCORE)

Modality: Virtual Classroom

Duration: 3.5 Days

CLC: 33 Units

About this course:

The "**Implementing Cisco Service Provider Next-Generation Core Network Services' ' course** is created to help students prepare for the certification exam of Cisco CCNP SP. This course allows students to apply MPLS's basic technical principles like basic quality of service to implement advanced functions. The students are also introduced to the Multi-Protocol Label Switching (MPLS) concepts in great detail. Through this students will gain the key understanding of the working and implementation of MPLS-TE that is MPLS Traffic Engineering services based on MPLS technologies.

The modules in this course also discuss the technical issues and best uses of MPLS. Students will learn to configure a couple of these features in the current routed environment. In addition to this, students interested in the Cisco Exam: 642-887 SPCORE can also get help in preparing for the exam. The course is part of the CCNP Service Provider Boot Camp (CS-CCNP-SP).

Course Objectives:

The primary object of this course is to teach students about different functions and features of MPLS.

Traffic Engineering in Modern Network

MPLS Labels and their distribution

Introduction to the QoS concepts

Implementation of QoS

Management of Network Congestion with the help of Cisco QoS

Audience:

The course is designed for:

Engineers: Network and Systems

Network Administrators

Prerequisites:

The course required prior knowledge in SPNGNG1, SPROUTE, SPNGN2 and SPADVROUTE

Course Outline:

- **Module 1: Multiprotocol Label Switching**
- **Module 2: MPLS Traffic Engineering**
- **Module 3: QoS in the Service Provider Network**
- **Module 4: QoS Classification and Marking**
- **Module 5: QoS Congestion Management and Avoidance**
- **Module 6: QoS Traffic Policing and Shaping**