

Operational Foundations for Cisco Service Provider Core Networks

Duration: 5 Days Course Code: OFCN

Overview:

The Operational Foundations for Cisco Service Provider Core Networks (OFCN) course introduces level-two personnel to the service provider network operations environment, processes, and management tools and methods and enables students to practice the primary job roles and tasks. The course helps prepare students for the CCNP® SP Operations certification exam. CCNP certification in SP Operations validates basic knowledge and skills of a Tier 2 support engineer in a prescriptive

Target Audience:

This course is designed for: Support staff Service provider network operations center (NOC) personnel Service provider engineers Service provider partners

Objectives:

- Upon completing this course, the learner will be able to meet these overall objectives:
- Describe service provider NGN technology trends and their effect on operational environments
- Describe the various NMS tools available to monitor networks and network devices
- Implement incident (event) management procedures
- Demonstrate fault management procedures
- Describe the configuration management process
- Demonstrate change management procedures
- Identify performance management procedures

Prerequisites:

The knowledge and skills that a learner must have before attending this course are as follows:

- IP networking fundamentals
- Operations process knowledge, represented by eTOM and/or ITIL® training or recommendations
- Troubleshooting methodology knowledge or experience as applied to IP network environments
- UNIX and/or Linux operating system experience or general familiarity

To gain the prerequisite skills and knowledge, Cisco strongly recommends the knowledge of the following courses:

- Supporting Cisco Service Provider IP NGN Operations (SSPO)

Testing and Certification

Recommended as preparation for:

- 642-770 - Operational Foundations for Cisco Service Provider Core Networks

OFCN is one of four courses required for **Cisco Certified Network Professional Service Provider Operations (CCNP SPOPS)** Certification

Follow-on-Courses:

- Maintaining Cisco Service Provider Routing Protocols (MSPRP)
- Maintaining Cisco Service Provider VPNs and MPLS Networks (MSPVM)
- Maintaining Cisco Service Provider Quality of Service (MSPQS)

All the above courses are part of the **Cisco Certified Network Professional Service Provider Operations (CCNP SPOPS)** Certification

Content:

Operations Functions, Models, and Processes Review

- Reviewing Network Operations, History, Structures, and Frameworks
- Describing Service Transition
- Describing Network Operations Processes and Metrics

Cisco IOS XR Software and Fundamentals

- Describing Cisco IOS XR Software Architecture and Features
- Performing Standard Operations on Cisco IOS XR Software
- Describing and Implementing an Initial Configuration
- Downloading and Installing New Software and Patches

Change Management Procedures

- Describing Change Management, Specific to the Role of Tiers 2 and 3 Operations
- Creating MOP Documents

Configuration Management Procedures

- Describing Release Management
- Describing Tiers 2 and 3 Configuration Management Roles
- Modifying Scripts that Support Process Automation

IP NGN Troubleshooting skills

- Describing Advanced Troubleshooting Methodologies
- Describing Layer 1 and Layer Device Connectivity
- Reviewing Routing
- Using Protocol Analyzers to View Traffic Flows

Performance Management on IP NGN Components

- Maintaining the Performance and Availability of Network Services
- Understanding Problem Management
- Understanding Capacity Management
- Applying SLM

Further Information:

For More information, or to book your course, please call us on +254 713 027 191

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