

Cisco NSO Essentials for Programmers and Network Architects v4.1 (NSO201)

Price: 3595

Duration: 4 days

Delivery Methods: Virtual

Overview

The Cisco **NSO Essentials for Programmers and Network Architects (NSO201)** v. 4.1 course introduces you to Cisco® Network Services Orchestrator (NSO). You will learn to install Cisco NSO and use it to manage devices and create services based on YANG templates with XPath. This course provides an overview of NSO as a network automation solution, as well as introductions to NETCONF, YANG, and XPath. You will learn about managing devices and creating device templates, service management and service package creation, network element drivers, interfacing with other systems using APIs, configuring and troubleshooting system settings, managing alarms and reporting, configuring NSO for scalability and performance, and capabilities that can be added to Cisco NSO.

This course will help you:

- Learn to install Cisco® Network Services Orchestrator (NSO)
- Practice configuring devices with NSO
- Practice designing and managing services with YANG models
- Gain confidence with NSO configuration

Prerequisites:

The knowledge and skills that the learner should have before attending this course are as follows:

- Basic knowledge of the Cisco Command-Line Interface (CLI) or the CLI of UNIX-like operating systems

- Working knowledge of UNIX-based operating systems and basic tasks
- Basic knowledge of programming constructs and YANG data modeling
- Basic knowledge of Python programming
- Basic knowledge of the NETCONF communication protocol
- Knowledge of XML data structures and schemas
- Basic management of network components (routers, switches, etc.)

The following Cisco courses can help you gain the necessary background:

- Network Programmability Basics (Cisco DevNet Course)
- Introducing Automation for Cisco Solutions (CSAU)
- Programming for Network Engineers (PRNE)

Course Objectives:

Upon completing this course, the learner will be able to meet these overall objectives:

- Explain the transactional service activation and how it relates to business requirements
- Explain how Cisco NSO communicates with network devices
- Understand the NETCONF protocol and be able to read and write simple YANG models
- Understand the difference between devices that are fully NETCONF capable and those that are less or not NETCONF capable
- Understand the support for candidate configuration and confirmed commit support
- Use logs to troubleshoot the Cisco NSO deployment and check NSO communication with network devices
- Explain the YANG service model structure
- Design a real-world usable service
- Explain the mapping logic of service parameters to device models and consequently to device configurations
- Describe the use of different integration options and APIs
- Explain how to implement action with use of config-templates in NSO package
- Explain the use of Reactive FASTMAP in for manipulating and implementing advanced NFV components
- Describe the use of feature components and function packs
- Define and explain the ETSI MANO principles and solution
- Work with the alarm console, and understand the NSO alarm structure and how it conforms to modern network operations procedures

- Describe Cisco NSO 5.3 new features and changes in NSO

Who Should Attend

The primary audience for this course is as follows:

- Network administrators
- Solutions designers
- System installers
- System integrators

Course Schedule

Date	Time	Price	Options
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