

Cisco NSO Advance Python Programmers v4.0 (NSO300)

Price: 4295

Duration: 5 days

Delivery Methods: Virtual

Overview

NSO300, Cisco NSO Advance Python Programmers v4.0 is a 5-day course that continues the learning journey of the [NSO Essentials for Programmers and Network Architects \(NSO201\) v4.1](#) course with NSO to include customizing templates with Python programming, Docker deployment, and Nano services. You will learn to create advanced services using the NSO application framework and Python scripting with both new and existing Layer 3 Multiprotocol Label Switching (MPLS) VPN services. You will also learn how to manage and scale these services to reduce operation consumption, and increase both security and available physical space, since virtualized network functions (VNFs) replace physical hardware. You will use Network Functions Virtualization (NFV) orchestration features, and Cisco Elastic Services Controller (ESC) to manage virtualized network functions.

This course will help you:

- Tailor a Cisco Network Services Orchestrator solution for your organization
- Manage virtualized network functions (VNFs) automated, efficient, and dynamic network functioning

Prerequisites:

Before you take this course, we recommend that you have the knowledge and skills obtainable by attending the [NSO Essentials for Programmers and Network Architects \(NSO201\)](#) class, plus have knowledge in the following areas:

- Basic knowledge of the command line of UNIX-like operating systems
- Basic knowledge of Network Configuration Protocol (NETCONF)
- Basic knowledge of Yet Another Next Generation (YANG) data modelling
- Basic knowledge of Python software development

Course Objectives:

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

- Describe the NSO application framework
- Deploy NSO in Docker
- Implement Python- and template-based service
- Describe service lifecycle integration
- Describe the implementation of Layer 3 MPLS VPN service for a new service deployment
- Implement Nano services
- Describe the implementation of Layer 3 MPLS VPN service for an existing deployment
- Describe managed services
- Implement stacked services
- Describe how to scale service orchestration
- Describe the European Telecommunications Standards Institute Management and Orchestration (ETSI MANO) Framework
- Manage VNF Lifecycle with Cisco ESC
- Implement NFV

Who Should Attend

The primary audience for this course is as follows:

- System engineers
- System integrators
- System programmers
- System administrators
- Network administrators
- Solutions designers

Course Schedule

| Date | Time | Price | Options |
|------|------|-------|---------|
|------|------|-------|---------|

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