

Cisco NSO Administration and DevOps (NSO303)

Course Content:

- Introducing Network and IT Convergence
- Introducing Cisco NSO Architecture
- Introducing Linux
- Explaining Cisco NSO Setup
- Exploring Access Control
- Describing Integration Options
- Explaining Version Control System
- Describing Continuous Integration and Continuous Delivery
- Introducing Scalability and High Availability
- Describing Scalable System Management
- Describing Software Development Methodologies
- Introducing Service Maintenance
- Performing Network Element Driver (NED) Upgrades
- Introducing Configuration Management
- Describing Change Management
- Explaining Service Problem Management
- Explaining Service Monitoring and Compliance Reporting
- Introducing Inventory Management
- Describing Cisco NSO Use Cases

Lab outline

- Perform NSO System Install
- Implement Role-Based Access and PAM
- Using Cisco NSO APIs
- Learn to work with Git
- Use NSO in Docker
- Configure High Availability
- Migrating a Monolithic Service to LSA
- Deploying the LSA Services
- Use the Network Connectivity Tool (NCT)
- Perform Service Backup and Restore
- Migrate a CDM Device
- Build a NETCONF NED
- Replacing a Device
- Troubleshoot NSO Alarms and Services
- Creating a Compliance Report