NSO Essentials for Programmers and Network Architects (NSO201) v4.2

Category: Software Development & Programming | **Vendor:** Cisco

Duration: 4.00 hours (1 days) **3.3 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: vILT

Course Overview

Master the fundamentals of Cisco NSO (Network Services Orchestrator) with the NSO201 v4.2 course. Ideal for programmers and network architects, this course provides essential skills and knowledge to effectively use NSO for network automation and orchestration.

About This Course

Master the fundamentals of Cisco NSO (Network Services Orchestrator) with the NSO201 v4.2 course. Ideal for programmers and network architects, this course provides essential skills and knowledge to effectively use NSO for network automation and orchestration.

Prerequisites & Entry Requirements

General Prerequisites:

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, Basic knowledge of YANG data modeling, Basic knowledge of the NETCONF communication protocol, Knowledge of XML data structures and schemas, Basic management of network components (routers, switches, etc.)

Learning Outcomes

Upon successful completion of this course, participants will be able to:

Course ObjectivesExplain the transactional service activation and how it relates to business requirementsExplain how Cisco NSO communicates with network devicesUnderstand the NETCONF protocol and be able to read and write simple YANG modelsUnderstand the difference between devices that are fully NETCONF capable and those that are less or not NETCONF capableUnderstand the support for candidate configuration and confirmed commit supportUse logs to troubleshoot the Cisco NSO deployment and check NSO communication with network devicesExplain the YANG service model structureDesign a real-world usable serviceExplain the mapping logic of service parameters to device models and consequently to device configurationsDescribe the use of different integration options and APIsExplain how to implement action with use of config-templates in NSO packageExplain the use of Reactive FASTMAP in for manipulating and implementing advanced NFV componentsDescribe the use of feature components and function packsDefine and explain the ETSI MANO principles and solutionWork with the alarm console, and understand the NSO alarm structure and how it conforms to modern network operations proceduresDescribe Cisco NSO 5.3 new features and changes in NSO, Course ObjectivesExplain the transactional service activation and how it relates to business requirementsExplain how Cisco NSO communicates with network devicesUnderstand the NETCONF protocol and be able to read and write simple YANG modelsUnderstand the difference between devices that are fully NETCONF capable and those that are less or not NETCONF capableUnderstand the support for candidate configuration and confirmed commit supportUse logs to troubleshoot the Cisco NSO deployment and check NSO communication with network devicesExplain the YANG service model structureDesign a real-world usable serviceExplain the mapping logic of service parameters to device models and consequently to device configurationsDescribe the use of different integration options and APIsExplain how to implement action with use of config-templates in NSO packageExplain the use of Reactive FASTMAP in for manipulating and implementing advanced NFV componentsDescribe the use of feature components and function packsDefine and explain the ETSI MANO principles and solutionWork with the alarm console, and understand the NSO alarm structure and how it conforms to modern network operations proceduresDescribe Cisco NSO 5.3 new features and changes in NSO, Course ObjectivesExplain the transactional service activation and how it relates to business requirementsExplain how Cisco NSO communicates with network devicesUnderstand the NETCONF protocol and be able to read and write simple YANG modelsUnderstand the difference between devices that are fully NETCONF capable and those that are less or not NETCONF capableUnderstand the support for candidate configuration and confirmed commit supportUse logs to troubleshoot the Cisco NSO deployment and check NSO communication

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Detailed Course Outline

Orchestrating Network Solutions, Orchestrating Network Solutions, Orchestrating Network Solutions, Describing Cisco NSO Operation, Describing Cisco NSO Operation, Describing Cisco NSO Operation,

Installing Cisco NSO, Installing Cisco NSO, Installing Cisco NSO, Exploring the Advantages of NETCONF, Exploring the Advantages of NETCONF, Exploring the Advantages of NETCONF, Managing Devices Using the Device Manager, Managing Devices Using the Device Manager, Managing Devices Using the Device Manager, Creating YANG Models, Creating YANG Models, Creating YANG Models, Using Services, Using Services, Using Services, Implementing Services with Model-to-Model Mapping, Implementing Services with Model-to-Model Mapping, Implementing Services with Model-to-Model Mapping, Designing Services in Cisco NSO, Designing Services in Cisco NSO, Designing Services in Cisco NSO, Managing the Service Lifecycle, Managing the Service Lifecycle, Managing the Service Lifecycle, Programming with Python in Cisco NSO, Programming with Python in Cisco NSO, Programming with Python in Cisco NSO, Configuring and Troubleshooting System Settings, Configuring and Troubleshooting System Settings, Configuring and Troubleshooting System Settings, Discovering Cisco NSO Northbound APIs, Discovering Cisco NSO Northbound APIs, Discovering Cisco NSO Northbound APIs, Managing Alarms and Reporting, Managing Alarms and Reporting, Managing Alarms and Reporting, Configuring Cisco NSO for Scalability and Performance, Configuring Cisco NSO for Scalability and Performance, Configuring Cisco NSO for Scalability and Performance, Describing Cisco NSO VNF Manager and Function Packs, Describing Cisco NSO VNF Manager and Function Packs, Describing Cisco NSO VNF Manager and Function Packs, Lab Outline, Lab Outline, Lab Outline, Introducing Service Orchestration with Cisco NSO, Introducing Service Orchestration with Cisco NSO, Introducing Service Orchestration with Cisco NSO, Exploring Cisco NSO Architecture, Exploring Cisco NSO Architecture, Exploring Cisco NSO Architecture, Examining the NSO Architecture and Operation, Examining the NSO Architecture and Operation, Examining the NSO Architecture and Operation, Managing Devices Using NSO, Managing Devices Using NSO, Managing Devices Using NSO, Implementing Services, Implementing Services, Implementing Services, Configuring and Managing NSO, Configuring and Managing NSO, Configuring and Managing NSO, Lab Outline, Lab Outline, Lab Outline

Frequently Asked Questions

Q: What delivery options are available for NSO Essentials for Programmers and Network Architects (NSO201) v4.2?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 1-day NSO Essentials for Programmers and Network Architects (NSO201) v4.2 course provides up to 3.3 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the NSO Essentials for Programmers and Network Architects (NSO201) v4.2 training?

The training takes place over 1 day(s), with each day lasting approximately 4.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for NSO Essentials for Programmers and Network Architects (NSO201) v4.2?

Yes, we provide corporate training, dedicated training, and closed classes for NSO Essentials for Programmers and Network Architects (NSO201) v4.2. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: NSO Essentials for Programmers and Network Architects (NSO201) v4.2, Cisco, vILT

Q: Why choose Nexus Human for NSO Essentials for Programmers and Network Architects (NSO201) v4.2?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your NSO Essentials for Programmers and Network Architects (NSO201) v4.2 training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

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