Network Automation Essentials (NAE)

ID NAE **Price** 3,200.— €(excl. tax) **Duration** 4 days

Important notes for the booking of Open Text trainings

Please note that prepayment is required for participation in an Open Text training course. Participation in a training course is possible for 12 months after booking the course. Cancellations are excluded. For further information, please refer to **our** General Terms and Conditions.

Course Overview

Together with OpenText™ Network Node Manager, OpenText™Network Automation is the second core component of the OpenText™ Network Operations Management (NOM) solution.

This four-day course about OpenText™ Network Automation (NA) teaches you how to use the NA solution to maintain, automate, and enforce policies and compliance on their enterprise networks. While you have a good understanding of managing and administering network devices, the course builds on that knowledge and teaches how to use a complex tool, such as NA to gain visibility and control over changes and corporate policies as applied to the enterprise network. You will learn how to automate previously manual tasks using the tools provided by NA to decrease error rates and increase productivity. You will also learn how to customize the tool to serve their purposes.

The class provides an opportunity to develop hands-on experience in configuring the tool, discovering and managing network devices, capturing, storing, and deploying their configuration, creating change plans, automating tasks and checking and enforcing compliance with policies using NA.

Highlights:

- Overview of NA functionality and operation
- Discovering, adding and deleting devices
- Creating device group for management and security purposes
- The management console
- Running tasks against devices and groups of devices
- Creating, editing and using templates and change plans
- Creating, modifying and using policies for compliance
- Using NA to upgrade device operating systems
- Creating and using workflows for change control
- Monitoring NA health
- Troubleshooting NA-related problems
- Utilizing the resources provided by the OpenText Marketplace

Who should attend

This course is intended for:

- Network engineers
- Network operations center (NOC) operators
- Support staff
- Operation Managers

Prerequisites

To be successful in this course, you should have the following prerequisites or knowledge:

- Device management operations principles and practices
- TCP/IP and industry-standard networking protocols
- Familiarity with network devices such as routers, gateways, firewalls, switches
- Systems and network administration
- Familiarity with Linux command language and shell scripting
- Basic programming skills with shell scripting and Perl/Python programming

Course Objectives

On completion of this course, participants should be able to:

- Describe basic components and functions of Micro Focus Network Automation (NA)
- Add and delete devices
- Create groups for device management
- Run tasks against devices and groups
- Create, edit, and use templates and change plans
- Create and use policies for compliance

- Create and use reports
- Use NA to upgrade device operating systems
- Create and use workflows for change control
- Monitor the NA server health
- Configure and manage the NA server operation
- Troubleshoot NA-related problems
- Utilize the resources provided by the OpenText Marketplace

Course Content

- Accessing the Lab Environment
- Network Automation Overview
- Device Management
- Device Access Methods, Device Groups, and Tasks
- Change Plans and Tasks
- Access Control Lists (ACLs)
- Deploying Software Images and Using the Command-Line Interface
- Managing Policies
- Managing Reports
- Task Troubleshooting
- Authorizing User Access
- Workflows
- Monitoring Server Health
- Administrative Settings
- Administrative Troubleshooting

Detailed Course Outline

Module 1: Accessing the Lab Environment

- Identify the contents and objectives of the course
- Define the class schedule and class logistics
- Identify the related courses
- Review the lab environment details

Module 2: Network Automation Overview

- Describe the features of OpenText Network Automation software (NA)
- Describe the NA system architecture including Tiered architecture and Driver architecture
- Identify the concepts and terminology that are associated with NA
- Describe the NA user interface

Module 3: Device Management

- Identify the device authentication process
- Add devices
- Describe the auto-discovery process
- Import devices from a .csv file
- Search for devices
- Edit, view, and deploy a configuration
- Compare device configuration versions
- Perform a bare metal install
- Provision a device from a device template

Module 4: Device Access Methods, Device Groups, and Tasks

- Explain device access methods
- Identify the connection methods in NA
- Identify the transfer protocols in NA
- Differentiate between device groups and parent groups
- Differentiate between Partitions and Realms
- Configure device groups
- Identify the major task types available in NA
- Create, manage, and perform device tasks

Module 5: Change Plans and Tasks

- Explain Change Plans and the supported features
- Identify the common operations you can do using Change Plans
- Edit and configure Change Plans
- Deploy Change Plans

Module 6: Access Control Lists (ACLs)

- Explain the Access Control Lists (ACLs)
- Create, edit, and run ACL scripts
- Create, edit, and use identity resource pools

Module 7: Deploying Software Images and Using the Command-Line Interface

- Explain the procedure for upgrade of software images using NA
- Prepare for updating a software image on a device
- Upload and manage software images
- Deploy software images
- Use the CLI of NA to manage network devices
- Create advanced scripts from (automatically) recorded user sessions

Module 8: Managing Policies

- Explain the compliance life cycle
- Manage configuration policies, including creating and modifying configuration policies
- Export and import configuration policies
- Review policy activity
- Test configurations against policies
- Review the Policy Subscription Service

Module 9: Managing Reports

- Identify the different reports available in the NA system
- Explain the use of the Statistics dashboard
- Search for reports
- Create and view various types of reports

Module 10: Task Troubleshooting

- Identify failed tasks
- Explain how to read the tasks details
- Troubleshoot failed tasks
- Review common device issues

Module 11: Authorizing User Access

- Plan for users, access, and authorization
- Differentiate between roles and permissions
- Create user accounts and user groups
- Edit user accounts
- Add users to user groups
- Create partitions
- Add users, user groups, devices, and device groups to partitions

Module 12: Workflows

- Explain the workflow process
- Create and manage workflows

Module 13: Monitoring Server Health

- Verify the server status with the built-in NA monitoring tools
- Explain data pruning tasks
- Configure and use Event Notification and Response rules

Module 14: Administrative Settings

- Explain the NA server administrative settings
- Configure and manage the NA server administrative settings

Module 15: Administrative Troubleshooting

- Identify NA-related problems
- Diagnose NA-related problems
- Isolate NA-related problems
- Resolve NA-related problems
- Locate additional references and support materials such as Contacting NA Support, Reporting a problem, Knowledge Base, Class registration, Documentation
- The OpenText Marketplace

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