

Course Data Sheet

NA120 – Network Automation 10.x Essentials

Course No.: NA120-101	Category/Sub Category: Operations Management/Network Management Center	
For software version(s): 9.0 – 10.1 Software version used in the labs: 10.1	Course length: 4 days	
Delivery formats: Instructor Led (ILT) and Virtual Instructor Led (VILT)	Training is available as a private session onsite.	
To order visit: http://h20546.www2.hp.com/main/index.cfm		

Course Description

The Network Automation 10.x Essentials training class is designed for network engineers and administrators. This course teaches the skills needed to successfully implement the product to manage small, medium, or large networked enterprises. Participants get the opportunity to master the skills required to develop advanced scripts to implement complex configuration changes. The course covers how to create and enforce policies which enforce security best practices. The course also covers how to integrate external applications using the NA API and how to develop customer device drivers.

The hands-on lab exercises in this course use Network Automation software version 10.1.

Audience / Job Roles

- Network engineers or administrators who are responsible for maintaining the configurations and policy compliance of a network infrastructure
- Consultants who want to implement and add value to customers' NA installations

Course Objectives

Upon successful completion of this course, you should be able to:

- Describe the basic components and functions of NA
- Add and delete devices
- Create groups for device management
- Run tasks against devices and groups
- Create, edit, and use templates and command scripts
- Create and use policies for compliance
- Create and use reports
- Plan for an NA installation
- Use NA to upgrade device operating systems
- Create and use workflows for change control

- Describe the NA application programming interface (API) and what it can do
- Describe the NA Network Driver Studio (NDS)

Prerequisites / Recommended Skills

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

- Familiarity with networking terms and concepts
- Familiarity with web browsers and telnet or SSH connection methods
- Familiarity with different flavors of operating system environments

Learning Path

For Operators:

NA01IT – Network Automation Interactive Training by ART

For Administrators:

NA120 – Network Automation 10.x Essentials NA350 – Network Automation 10.x Advanced

Certification

N/A

Course Topics

Modules	Objectives
Modules	Objectives
Module 1: Course	Introductions
Introduction	Describe the functions and features of HP NA
Module 2: Network	Describe the features of NA
Automation Overview	 Describe the NA system architecture:
	 Tiered architecture
	Driver architecture
	Identify the concepts and terminology associated with NA
	Describe the NA user interface
Module 3: Device	Identify the device authentication process
Management	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	Explain device access methods
Methods and Device	Identify the connection methods in NA
Groups	 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: Scripting and	 Explain the difference between simple and advanced scripts
ACLs	Create and use templates
	Create, edit, view, and execute scripts
	Explain the concept of Diagnostic scripts
	Explain the Access Control Lists (ACLs)
	Create, edit, and run ACL scripts
Module 6: Deploying	Upload and manage software images
Software Images and Using	Deploy software images
the Command-Line	 Use the CLI of NA to manage network devices
Interface	Create advanced scripts from (automatically) recorded user
	sessions
Module 7: Managing	Explain the compliance life cycle
Policies	Manage configuration policies, including:
	Creating configuration policies
	Editing configuration policies
	Export and import configuration policies Project and import configuration policies
	Review policy activity Test and financial activity Test and financi
	Test configurations against policies

Module 8: Managing Reports	 Identify the different reports available in the NA system Explain the use of the Statistics dashboard Search for reports Create and view the following reports: Summary reports User & System reports Device Status report Compliance Center report Device Software report Software Vulnerability report Diagramming Best Practices
Module 9: Task Troubleshooting	 Find failed tasks Read the task details Troubleshoot failed tasks Review common device issues
Module 10: Installation and Planning	Identify the implementation requirements for installing the NA system, including the requirements for the:
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 processCreate, edit, and run workflows
Module 13: Monitoring Server Health	 Check 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 Properly 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: Contacting NA Support:

Module 16: NA APIs	•	Explain NA API architecture Describe the structure of APIs Create simple Java/Perl code based on the NA API Use Web Services API (WSAPI) with NA
Module 17: Network Driver Studio	•	Describe the contents of a device driver Install Network Driver Studio (NDS) Create an NDS project in Eclipse Use NDS to create a device driver Install your device driver on your NA server Perform a driver discovery and snapshot with your device driver Execute a command script with your device driver