

HP Education Services Course Overview

HP Network Node Manager Software for Operators (B3305S)



This 2-day course provides operational skills for the HP Network Node Manager (Release 7.53) product. The course is targeted to network management operators who will be responsible for using the NNM product to troubleshoot the networked environment. This includes an overview of the NNM product, key terminologies and definitions and an overview of the use of NNM in troubleshooting a networked environment. The course is approximately 50 percent lecture and 50 percent lab.

Audience

- Network operators

Prerequisites

- Students should be network operators who have basic UNIX or Windows backgrounds, plus basic networking experience

Course Objective

After completing this course you will be able to:

- Use the NNM product to monitor and troubleshoot a networked environment.
- Rapidly identify and address problems, thus reducing downtime and increasing system utilization.
- Use the NNM monitoring tools to obtain the information necessary to use networked devices at optimal performance and efficiency.
- Describe the basics of Simple Network Management Protocol (SNMP).
- Understand IT Service Management, the Management Information Base (MIB), and the basic components of NNM.
- Know how to create, modify and delete maps, submaps and alarms.

Benefits to You

Learn to use NNM to:

- Maximize network resources and network speed.
- Dramatically reduce downtime.

Why education services from HP?

- Learn from the experts who developed HP OpenView
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- More than 120 training locations worldwide
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Course Title: HP Network Node Manager Software for Operators

HP Product Number: B3305S

Category/Subcategory: OpenView/OpenView Network Fault Management

Course Length: 2 days

Level: Introductory

Delivery Language: English

To Order: You can order this course online at <http://www.hp.com/learn>. At the site, select a country, then choose "registration" or "Book a course" and fill out the online registration form.

Next Steps: HP Network Node Manager on UNIX I or Windows I (uc34os)

Next Steps: HP Operations Manager on UNIX for Operators (H4358S)

Next Steps: HP Operations Manager for UNIX I (Administration), (H4356S)

Detailed Course Outline

Introducing Network Node Manager

- The network management model
- SNMP and the Management Information Base (MIB)

Introducing the NNM User Interfaces

- Describe the basic troubleshooting path for management by exception
- Start Network Node Manager Home Base
- Launch Dynamic Views from Home Base, the Alarm Browser, or the Tools menu
- Start ovw

Viewing Your Environment with Dynamic Views

- Interpret visual cues used in Dynamic Views
- Access and sort information in Active Tables
- Expand only relevant areas of displays
- Print a diagram.

Viewing Your Environment with ovw

- Map and submap operations
- IP Submap hierarchy
- Visual cues in ovw
- Retrieving an object's attributes

Creating and Customizing Maps

- Creating a new map
- Customize map background, layout, etc.

Viewing Your Environment with the Network Presenter

- Access maps from the Network Presenter
- Differences between Network Presenter and ovw
- Open a map other than the default map from the Network Presenter

NNM Tools for Monitoring and Troubleshooting

- Test basic connectivity
- Check the configuration of a device
- View connectivity in your network
- View nodes connected to a device using Neighbor View
- View performance related information from a device
- Connect to a device using telnet

Using Problem Diagnosis

- Start the Problem Diagnosis view
- Configure endpoints
- Read a Path Map, Path Detail and Trek Detail diagram
- Describe Problem Diagnosis' brownout alarms

Viewing Alarms

- Browse and acknowledge alarms
- Access correlated alarms
- Access a graphical view of the node in an alarm

Viewing Automatic Web Reports

- View the reports from the web Reporting interface

Exploring and Using MIB Data

- Describe the purpose and structure of a MIB
- Distinguish between MIB objects and instances.
- Browse MIB data on a node

Networking Review

- The Open Systems Interconnection (OSI) model
- Protocols
- Device addressing
- Address resolution protocol (ARP/RARP)
- Hardware of the OSI model
- Subnets

NNM Processes and Databases

- Describe the interaction between the processes, services, GUIs, databases and data warehouse
- Identify processes associated with the user interfaces
- Describe where NNM files are stored and how to access them
- Configure Universal Path Names
- Distinguish between the various NNM databases and view their contents
- Describe the difference between objects and symbols
- Describe how Extended Topology integrates with NNM

Backing up NNM Data

- Back up NNM data
- Restore NNM data
- Troubleshoot backups

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