



# OMU120 – Operations Manager 9.x on UNIX/Linux Administration Essentials

Instructor-Led Training

For versions 9.0, 9.01, and 9.10

## Overview

This five-day instructor-led course focuses on the essential administrative tasks for Operations Manager on UNIX or Linux. You will learn how to effectively monitor, manage, and report on the health and performance of systems and applications in a heterogeneous IT environment using Operations Manager on UNIX or Linux. The course is delivered using the Linux platform, but applies to all three UNIX platforms where Operations Manager can be installed. The course reinforces concepts with extensive hands-on lab exercises. These hands-on exercises use version 9.10 of the software.

This course is designed for administrators of the Operations Manager 9.x on UNIX/Linux product.

## Intended Audience

This course is intended for:

- Anyone tasked with the administration of the Operations Manager 9.x on UNIX/Linux product
- Consultants and systems integrators tasked with enterprise-wide management integration solutions
- HP personnel who provide pre-sales and post-sales support for the product

## Duration: 5 Days

## Software Versions: 9.0, 9.01, and 9.10

## Prerequisites

For best success with this course, students should have working knowledge of, or formal training in, the following:

- Fundamentals and administration of a UNIX or Linux operating system
- Basic elements of ITIL and ITSM, and common protocols, such as TCP, UDP, and IP
- POSIX, UNIX shell, or Perl scripting

See the HP Software Education web sites for HP courses that can help meet these prerequisites.

## Course Objectives

At the end of the course, you should be able to:

- Create and modify user (operator) accounts for HP Operations Manager
- Configure system and application monitoring through policies
- Configure automatic responses to system or application problems
- Perform basic HP Operations Manager agent installation
- Configure nodes, node groups, message groups, tools, policies, policy groups, and other essential elements for use by both administrators and operators
- Use the Java Operator GUI to perform day-to-day tasks on messages
- Configure policies, messages, and commands for use in dealing with enterprise activities
- Choose appropriate techniques for managing devices using policies
- Use the Admin UI to perform all common administrative functions
- Administer and maintain HP Operations Manager, its database and users, including backups of the environment
- Perform needed tasks to manage messages and message content

## Related Courses

- OMU350 – Operations Manager 9.x on UNIX/Linux Advanced Administration

## Certification Exams

N/A

### **Module 1: Introduction to OMU/OML Administration**

- Present an overview of the course

### **Module 2: Essential OMU/OML Architecture**

- Identify key components of the global OMU/OML architecture
- Name important managed node processes and explain their roles
- Name important management server processes and explain their roles
- Describe OMU/OML message flow

### **Module 3: The OMU/OML Users**

- Describe the roles of an OMU/OML administrator and an OMU/OML operator
- Identify key elements of responsibility for OMU/OML users
- Describe the process of problem resolution and elements of OMU/OML that are involved
- Identify the primary OMU/OML administrator interface and its key functions
- Identify the primary OMU/OML operator interface and its key elements

### **Module 4: Working with the Java GUI**

- Install and start the Java GUI
- Identify messages of interest using tools within the Java GUI
- Create both filtered message browsers and filtered message views
- Launch tools and execute actions
- View and add annotations to messages
- Acknowledge completed messages

### **Module 5: Using the OMU/OML Admin UI**

- Launch and log in to the Admin UI
- Browse, filter, sort, and locate objects
- Use the Admin UI editors to create and modify objects
- Use the shopping cart
- Apply policy versioning

### **Module 6: Adding OMU/OML Users**

- Create a new OMU/OML user account
- Assign responsibilities using the user responsibilities matrix
- Define the impacts of user capabilities
- Define and configure user profiles and apply them to user accounts
- Assign tools to user accounts

### **Module 7: Managing Nodes in OMU/OML**

- Add managed nodes to the OMU/OML database
- Create node groups and node hierarchies
- Create and apply node hierarchies
- Update the user responsibilities with node groups and node hierarchies
- Perform a basic OM agent installation

### **Module 8: From Event to Message Browser**

- Identify events and event sources
- Identify event and message processing on the managed node
- Define the role of the policy and conditions
- Define the role of policy groups
- Identify message processing on the management server

### **Module 9: Managing Policies**

- Create a new basic policy
- Create new policy groups
- Manage policy versions
- Assign and deploy policies

**Module 10: Pattern Matching**

- Use pattern matching rules and expressions to selectively match text patterns
- Use patterns to selectively extract information into a variable
- Use the `opcpat` command to manually test and evaluate patterns

**Module 11: Policy Conditions**

- Create conditions to distinguish between lines in a logfile
- Generate messages with differing attributes, based on the incoming event
- Specify lines to be ignored in a logfile
- Test the use of pattern matching in conditions

**Module 12: Configuring Message Actions**

- Configure automatic and operator-initiated actions
- Configure a notification service
- Configure a link to a trouble ticket system

**Module 13: More Policy Options**

- Create and view custom message attributes
- Configure a mechanism for dealing with overlapping policies
- Configure predefined instructions or dynamic instructions for the user

**Module 14: Logfile Entry Policies**

- Configure a policy to deal with a binary logfile
- Configure a policy to detect logfile names using logfile discovery

**Module 15: Open Message Interface Policies**

- Configure and deploy an Open Message Interface policy
- Use the `opcmsg` command and all its parameters

**Module 16: SNMP Trap Policies**

- Configure and deploy an SNMP Trap policy
- Use the basic structure of an SNMP trap to create meaningful conditions

**Module 17: Measurement Threshold Policies**

- Differentiate among the types of monitoring
- Configure and deploy a Measurement Threshold policy
- Describe how message generation works with the different monitoring types
- Use the `opcmon` command, along with its parameters and options

**Module 18: Performance Measurements**

- Differentiate between Performance Collection Component (PCC) components
- Understand when to use the old Embedded Performance Component (EPC, coda) or the new PCC
- Use the PCC to monitor a performance metric
- Describe the licensing restrictions of the additional performance components (RTM, GlancePlus) of the Operations agent 11 (OA11)

**Module 19: Scheduled Task Policies**

- Configure and deploy scheduled task policies

**Module 20: WMI Policies**

- Create and test a basic WMI policy

**Module 21: Service and Process Monitor Policies**

- Create and test a basic Service Monitoring policy
- Create and test a basic Process Monitoring policy

**Module 22: Basic Message Reduction**

- Apply basic agent-based message reduction techniques
- Apply basic server-based message reduction techniques
- Apply the use of message keys in message reduction

**Module 23: Managing Tools**

- Organize tools into tool groups
- Add new tools

**Module 24: Using Service Navigator**

- Navigate the components of the Service Navigator GUI
- Use of the Service Navigator to show root cause and impacted services associated with a problem

**Module 25: Other Administration Tasks**

- Identify key areas of OMU/OML management
- Identify the key directory locations for both the management server and the managed node
- Define a plan for backups and configuration downloads
- Identify a plan for auditing