



HPE Matrix Operating Environment Foundations HL972S

This course covers the configuration and use of the HPE Matrix Operating Environment foundational features, including storage pools, logical servers, infrastructure orchestration, and capacity planning.

HPE course number	HL972S
Course length	5 days
Delivery mode	ILT
View schedule, local pricing, and register	View now
View related courses	View now

Why HPE Education Services?

- IDC MarketScape leader 4 years running for IT education and training*
- Recognized by IDC for leading with global coverage, unmatched technical expertise, and targeted education consulting services*
- Key partnerships with industry leaders OpenStack®, VMware®, Linux®, Microsoft®, ITIL, PMI, CSA, and (ISC)²
- Complete continuum of training delivery options—self-paced eLearning, custom education consulting, traditional classroom, video on-demand instruction, live virtual instructor-led with hands-on lab, dedicated onsite training
- Simplified purchase option with HPE Training Credits

Audience

- Administrators, engineers and consultants who will plan and manage internal cloud service catalogs using HPE Matrix Operating Environment infrastructure orchestration software

Prerequisites

HPE recommends that students have attained the following credentials or levels of experience before taking this course:

- Training or experience with HPE Systems Insight Manager
- SAN technology and HPE P6000 Command View Software training or experience
- HPE Insight Control server deployment software training or experience
- Experience installing and configuring Windows Server® OSs and their required hardware, firmware, and software drivers
- Familiarity with installation of VMware Infrastructure 3 Enterprise Edition, specifically VMware® ESX® Hypervisor and VMware® vCenter™
- Qualified experience to configure an HPE BladeSystem Virtual Connect environment, including VC Ethernet modules, VC Fibre Channel modules, and server blades

Course objectives

- Describe the major functions and features of the HPE Matrix Operating Environment
- Verify the HPE Matrix Operating Environment configuration
- Configure Matrix OE Capacity Planning software
- Create a capacity planning scenario
- Create a scenario comparison report
- Create and manage a logical server through its lifecycle
- Configure a storage pool for resource sharing
- Manage storage pool resources
- Troubleshoot Matrix OE configurations
- Configure HPE Matrix Operating Environment infrastructure orchestration (IO) resource pools
- Configure IO virtual machine deployments
- Configure IO physical server deployments
- Deploy infrastructure services in a private cloud configuration
- Manage IO services
- Troubleshoot IO Services
- Configure Storage Provisioning Manager
- Create a storage template and service
- Configure and use on-demand storage services
- Describe additional Matrix OE capabilities

* Realize Technology Value with Training, IDC Infographic 2037, Sponsored by HPE, January 2016

Detailed course outline

Module 1: Matrix OE Overview

- Matrix OE Overview
 - Matrix OE Infrastructure Orchestration
 - Matrix OE Recovery Management
 - Matrix OE Logical Server Management
 - Matrix OE Capacity Planning
 - CMS High Availability
 - Getting Started With Matrix OE
-

Module 2: Capacity Planning

- Capacity Planning Data Collection
 - Collecting Power Data
 - Planning For a Server Consolidation
 - Capacity Analysis and 5-Star Ratings
 - Additional Scenario Tasks
 - Capacity Planning Forecasts
 - Capacity Planning Reports
-

Module 3: Logical Servers

- Logical Server Features
 - Creating a Logical Server
 - Activating a Logical Server
 - Importing a Logical Server
 - Deactivating a Logical Server
 - Moving a Logical Server
 - Deleting a Logical Server
-

Module 4: Storage Pools

- Using storage pools
 - Creating a Storage Pool Entry
 - Zoning a Storage Pool Entry
 - Validating the Storage Pool Entry
 - Creating a logical server
 - Deploying an operating system to the logical server
 - Deleting a logical server
-

Module 5: Troubleshooting

- Common Quick Fixes
 - Initial Analysis
 - First Pass Troubleshooting
 - Other Tools and Procedures
-

Module 6: Infrastructure Orchestration Basics

- Infrastructure Orchestration Overview
 - Federated CMS
 - Administrator Configuration Tasks
 - IO User Management
 - Setting Up VM Provisioning
 - VM Resource Pools
 - Designing an IO Template
 - Creating an IO Service
 - Service Management
 - IO Troubleshooting
 - Service Request Interfaces
-

Module 7: Infrastructure Orchestration Physical Server Provisioning

- Configuring Organizations
- Setting up IO Server Pools
- Configuring Pool Resources
- Provisioning Physical Servers
- Managing a Failed Service Request

Module 8: Storage Service Management

- Storage Provisioning Manger Overview
 - Configuring the Storage Provisioning Manager
 - Creating a Storage Template
 - Creating a Storage Service
 - Creating an On-Demand Storage Template
 - Monitoring the Storage Catalog
-

Detailed lab guide

Lab 1:	<ul style="list-style-type: none">• Matrix OE Overview• Verifying Matrix OE Installation
Lab 2:	<ul style="list-style-type: none">• Overview of Capacity Advisor• Creating a Consolidation Planning Scenario• Creating a Scenario Comparison Report
Lab 3:	<ul style="list-style-type: none">• Managing Logical Servers
Lab 4:	<ul style="list-style-type: none">• Creating a storage pool entry• Configuring SPE SAN Zoning• Completing the Storage Pool Entry• Creating a Logical Server• Deploying an Operating System to the Logical Server• Deleting a Logical Server
Lab 5:	<ul style="list-style-type: none">• HPE Matrix OE Troubleshooting
Lab 6:	<ul style="list-style-type: none">• Configuring IO Users• Designing an IO Template• Creating an IO Service• Managing Your IO Service• IO Troubleshooting
Lab 7:	<ul style="list-style-type: none">• Configuring an IO Organization• Creating an IO Server Pool• Configuring Pool Resources• Provisioning Physical Servers
Lab 8:	<ul style="list-style-type: none">• Overview of Storage Provisioning Manager• Configuring Storage Provisioning Manager• Creating a Storage Template• Creating a Storage Service• Creating an On-Demand Storage Template• Monitoring the Storage Catalog

Learn more at
hpe.com/ww/learnproliant

Follow us:



© Copyright 2015–2016 Hewlett Packard Enterprise Development LP. The information contained herein is subject to change without notice. The only warranties for Hewlett Packard Enterprise products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. Hewlett Packard Enterprise shall not be liable for technical or editorial errors or omissions contained herein.

Microsoft and Windows Server are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries. The OpenStack Word Mark is either a registered trademark/service mark or trademark/service mark of the OpenStack Foundation, in the United States and other countries and is used with the OpenStack Foundation's permission. We are not affiliated with, endorsed or sponsored by the OpenStack Foundation or the OpenStack community. Pivotal and Cloud Foundry are trademarks and/or registered trademarks of Pivotal Software, Inc. in the United States and/or other countries. Linux is the registered trademark of Linus Torvalds in the U.S. and other countries. VMware, VMware ESX, and VMware vCenter are registered trademarks or trademarks of VMware, Inc. in the United States and/or other jurisdictions. All other third-party trademark(s) is/are property of their respective owner(s).