



HP Education Services Course Overview

HP Matrix technologies Overview (HK919S)

This 2-day course provides an overview of the HP BladeSystem Matrix solution and an opportunity to understand the various supporting components within the solution. The course presents a summary of the HP BladeSystem Matrix functions. The course also presents the appropriate identification and utilization of technology for a private cloud solution.

Audience

- Individuals participating in this course should be those who are required to have a technical knowledge of the HP BladeSystem Matrix solution

Prerequisites

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

- An understanding of Windows system administration
- Familiarity with general networking concepts and terminology
- Familiarity with HP BladeSystem and HP Virtual Connect technology
- Familiarity with HP Systems Insight Manager

Course objectives

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

- Provide technical explanations of the HP BladeSystem Matrix solution
- Describe the components of BladeSystem Matrix solution
- Discuss environment configuration requirements
- Demonstrate HP BladeSystem operation using Self Service Portal

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Course title:	HP Matrix technologies Overview
HP product number:	HK919S
Category/Subcategory:	BladeSystem Matrix
Course length:	2 days
Level:	Intermediate
Delivery language:	English
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Detailed course outline

Module 0: Course Introduction

Module 1: HP Virtualization and HP BladeSystem Matrix overview

- Introduction to HP CloudStart with HP BladeSystem Matrix
- Introduction to HP BladeSystem Matrix 6.x packaged infrastructure/solution and how this solution fits within the HP Converged Infrastructure cloud environment
- Overview of the hardware and software components that used to forms a HP BladeSystem Matrix

- Introduction to the various virtualization platform supported by the HP BladeSystem Matrix platform – VMware vSphere, Microsoft Hyper-V, and HP Integrity Virtualization platform
- Introduction to HP BladeSystem Matrix ISV Application Templates

Module 2: BladeSystem Matrix operating environment – power, cooling and networking

- Describe the implication related to power and cooling to the data center environment when operating HP BladeSystem Matrix
- Describe the management process to handle power, cooling or networking scheduled maintenance process
- Describe the public client network and private management/deployment network requirement
- Describe the networking services and configuration requirement – DNS, DHCP, Gateway-routing, PXE and VLAN

Module 3: HP Virtual Connect Flex-10, FlexFabric and Virtual Connect Fibre Channel

- Introduction to Virtual Connect Flex-10 and FlexFabric architecture, network and storage profiling and cascading of Virtual Connect Domains across multiple enclosures
- Introduction to HP Virtual Connect Manager (VCM) and Virtual Connect Enterprise Manager (VCEM) used in the HP BladeSystem Matrix
- Describe the general HP Virtual Connect Flex-10/FlexFabric design used for HP BladeSystem Matrix

Module 4: HP StorageWorks – EVA and P4000

- Introduction to HP StorageWorks portfolio/solution and third party storage solution supported
- Planning and preparing storage environment for Matrix implementation
- Using HP CommandView EVA and/or HP StorageWorks P4000 Central Management Console to configure storage resources – Storage Provisioning

Module 5: HP Insight Control/Insight Dynamic/Orchestration Environment

- Describe the primary management console (HP Systems Insight Manager) and Integrated Lights-Out/Onboard Administrator functionalities
- Performs basic hardware management such as HP Onboard Administrator, HP Virtual Connect Manager/Virtual Connect Enterprise Manager and HP iLO2 or iLO3 administration tasks
- Describe the different licensing model for HP Insight Control Software
- Describe the other software components including within the HP Insight Control/Dynamic Management Suites (Matrix Operating Environment)

Module 6: HP BladeSystem Matrix Orchestration Infrastructure Workflow planning

- Identify the tasks and objectives required as part of the on-going administration of the environment
- Define and describe the objectives of each stage in the workflow including approval process

Module 7: Storage Pool (definition/entries within HP Insight Dynamic/Insight Orchestration)

- Describe the storage pool resource in HP Insight Dynamic/Orchestration
- Configure and assign storage pool resources (configure storage LUN on HP StorageWorks EVA array or P4000 SAN)

Module 8: HP Insight Dynamic – Logical Servers and Physical Servers administration

- Perform the administrative task in HP Insight Dynamic

Module 9: HP Insight Orchestration – Administration and Operation

- Perform administrative task using HP Insight Orchestration and identify the process flow from requesting to approval and deployment.
- Use HP Insight Orchestration to create a service request
- Use HP Insight Orchestration to approve a service request
- Use HP Insight Orchestration and HP Insight Dynamic to verify a service request has been deployed successfully
- Next Steps

For more information

To locate country contact information and to learn more about education services, please visit our worldwide web site at <http://www.hp.com/learn>.

