



# HPE EVA and P6000 Admin and Management HK975S

<b>HPE course number</b>	HK975S
<b>Course length</b>	3 days
<b>Delivery mode</b>	ILT
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This 3-day course combines theory and practical labs to teach users how to manage the HPE EVA and P6000 disk arrays. Hardware, concepts and terminology are covered in-depth followed by configuration tasks which include HPE P6000 Command View (version 10.3), native multipathing on Windows 2008, Local Replication using Business Copy with Snapshots, Snapclones and Mirrorclones, Replication Solution Manager for Business Copy, command line/scripting with SSSU, Thin Provisioning and Online LUN Migration.

## Why HPE Education Services?

- IDC MarketScape leader 4 years running for IT education and training\*
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## Additional information

The powerful HPE P6000 Performance Advisor and EVAPerf, Upgrading HPE P6000 EVA software, Event Management as well as Best Practices are covered too.

A high-level overview of Continuous Access (remote replication) is covered as well.

## Audience

This class is ideal for new users as well as administrators who have worked with the legacy EVA product line, as new features and differences are discussed.

## Prerequisites

- SAN and Storage Technologies training/experience
- Operating System Administration training/experience
- HPE Accelerated SAN Essentials (UC434S) is advantageous

## Detailed course outline

<b>Module 1: Course Overview</b>	<p>The objectives and purpose of this course</p> <ul style="list-style-type: none"> <li>• Where to go for additional documentation</li> </ul>
<b>Module 2: Product and Hardware Overview</b>	<ul style="list-style-type: none"> <li>• The main features, at a high level, of the P6000 arrays</li> <li>• The position of the P6000 arrays in the HPE Storage Product Portfolio</li> <li>• The main hardware components of the P6000 array including the controllers, drive shelves, and management module</li> </ul>
<b>Module 3: Command View (10.3)</b>	<ul style="list-style-type: none"> <li>• How to login and use the Command View user interface</li> <li>• The installation and configuration guidelines for Command View</li> <li>• Two options for installing Command View: Server Based Management (SBM) and Array Based Management (ABM)</li> <li>• Command View GUI and its features</li> </ul>
<b>Module 4: Basic Concepts and Terminology</b>	<ul style="list-style-type: none"> <li>• Basic terms associated with an EVA</li> <li>• Primary features of a disk group</li> <li>• Primary features of virtual disks</li> <li>• Distributed virtual RAID technology</li> <li>• Virtual disk creation</li> </ul>
<b>Module 5: Storage System Configuration</b>	<ul style="list-style-type: none"> <li>• How to use Command View to initialize a P6000</li> <li>• How to create, modify, and delete disk groups and virtual disks</li> <li>• Properties of disk groups and virtual disks</li> </ul>
<b>Module 6: Host Configuration</b>	<ul style="list-style-type: none"> <li>• Supported operating systems</li> <li>• Identification of the World Wide Name (WWN) for a host HBA</li> <li>• Basic zoning for host presentation from a P6000</li> <li>• Preparing a host to access P6000 capacity</li> <li>• Defining hosts in Command View</li> <li>• How to add FC ports to a host</li> <li>• Presenting a vdisk/lun to a host</li> <li>• Unpresenting a vdisk/lun from a host</li> </ul>
<b>Module 7: Making LUNs Visible to Hosts</b>	<ul style="list-style-type: none"> <li>• Making LUNs visible to the following host operating systems: Windows®, HP-UX, Linux, VMware® ESX®</li> <li>• Where to go for multipathing information</li> </ul>
<b>Module 8: Thin Provisioning</b>	<ul style="list-style-type: none"> <li>• The concept of thin provisioned vdisk/lun</li> <li>• Advantages and disadvantages of a thin provisioned vdisk/lun</li> <li>• How to work with a thin provisioned vdisk/lun in Command View</li> </ul>
<b>Module 9: Advanced Concepts and Terminology</b>	<ul style="list-style-type: none"> <li>• P6000 virtualization</li> <li>• Redundant storage sets (RSS) and their benefits</li> <li>• RSS behavior</li> <li>• Disk failure protection levels</li> <li>• Virtual disk leveling</li> <li>• Distributed sparing</li> </ul>
<b>Module 10: Storage System Scripting Utility: SSSU</b>	<ul style="list-style-type: none"> <li>• Storage System Scripting Utility (SSSU)</li> <li>• Command structure and naming conventions</li> </ul>
<b>Module 11: Business Copy: Local Replication</b>	<ul style="list-style-type: none"> <li>• HPE P6000 local replication concepts</li> <li>• Snapshots</li> <li>• Snapclones</li> <li>• Mirrorclones</li> </ul>

## Course data sheet

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<b>Module 12: Business Copy EVA RSM Operations</b>	<ul style="list-style-type: none"><li>• The purpose, features and functions of Replication Solutions Managers (RSM)</li><li>• RSM jobs and templates</li><li>• RSM resources and how to use them for BC functions</li></ul>
<b>Module 13: Continuous Access</b>	<ul style="list-style-type: none"><li>• Market trends for business continuity</li><li>• Features and requirements of Continuous Access (CA)</li></ul>
<b>Module 14: Online LUN Migration</b>	<ul style="list-style-type: none"><li>• LUN migration</li><li>• How to migrate a vdisk/lun in Command View</li></ul>
<b>Module 15: Performance Monitoring (including new Performance Advisor and some EVAPerf)</b>	<ul style="list-style-type: none"><li>• Benefits of Performance Advisor</li><li>• Identify how to bring up Performance Advisor</li><li>• Charts and reports in Performance Advisor</li><li>• P6000 Performance Data Collector/EVAPerf command line</li></ul>
<b>Module 16: Troubleshooting and Event Management</b>	<ul style="list-style-type: none"><li>• Troubleshooting plan</li><li>• Event categories and sources</li><li>• Event Management Tools</li><li>• WEBES/SES events</li><li>• Event config choices</li><li>• Introduction to Insight Remote Support</li></ul>
<b>Module 17: Upgrading HPE P6000 EVA Software</b>	<ul style="list-style-type: none"><li>• Overview of the upgrade process</li><li>• Documentation sources</li><li>• Pre-upgrade procedures and tools for upgrade</li><li>• On-line vs off-line controller code and disk drive code load</li></ul>
<b>Module 18: Best Practices</b>	<ul style="list-style-type: none"><li>• The best practices in terms of cost for the P6000</li><li>• The best practices in terms of performance for the P6000</li><li>• The best practices in terms of availability for the P6000</li></ul>

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