

HP Education Services Course Overview

HP BladeSystem Solution I: Planning and Deployment (U8472S)



In this 3-day course, you will learn how to identify, deploy and manage HP BladeSystem server blades. You will also learn how to connect the HP BladeSystem server blades to network storage devices. Students will troubleshoot common HP BladeSystem problems. The course also includes an overview of the BladeSystem c-Class server and storage blades and an overview of the tools and solutions applicable to the c-Class.

Audience

Administrators, engineers and consultants who will plan and manage the deployment of HP ProLiant BladeSystem servers.

Prerequisites

The following courses are recommended but are not mandatory:

- Deploying HP ProLiant Servers - Using Rapid Deployment Pack (U3976S)
- Enterprise Systems Management using HP Systems Insight Manager (U8474S)

Course Objective

- Discuss the deployment and management tools available for HP BladeSystem solutions.
- Identify the ProLiant BL p-Class system components.
- Discuss the architecture of the ProLiant BL p-Class system components and their benefits.
- Plan a deployment site for HP BladeSystem servers.
- Design the power infrastructure of HP ProLiant BL p-Class server blades.
- Deploy HP ProLiant BladeSystem servers using HP ProLiant Essentials RDP, HP integrated Lights-Out (iLO), and HP Systems Insight Manager.
- Prepare a deployment server and deploy HP BladeSystem servers.
- Choose the appropriate interconnect options for HP BladeSystem servers.
- Explain how to connect ProLiant BL p-Class server to an HP SAN.
- Explain how SIM integrates with OVO for Windows and iLO technology to manage HP BladeSystems.
- Describe the features, tools and solutions of the BladeSystem c-Class server blades and storage blades.

Benefits to You

- Describe HP ProLiant BL server blade technology.
- Discuss the site planning and infrastructure design needed to deploy an HP BL server blade line.
- Discuss server deployment with the HP ProLiant Essentials Foundation Pack for BL servers and management tools.
- Describe the standard components and technologies included with the ProLiant BL p-class systems.
- Describe the standard components and technologies included with the ProLiant BL c-class systems.
- Discuss networking using interconnect technology with BL server blades.
- Use HP Systems Insight Manager on BL server blades.
- Support and troubleshoot BL server blades.

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Course Title: HP BladeSystem Solution I: Planning and Deployment

HP Product Number: U8472S

Category/Subcategory: ProLiant

Course Length: 3 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 BladeSystem Solutions II: Automated Provisioning and Management (U8481S)

Detailed Course Outline

HP BladeSystem Portfolio Introduction

- Communicate the HP BladeSystem c-Class message
- Discuss the CCI and p-Class products in the BladeSystem portfolio
- Describe the features of the BladeSystem c-Class server blades and storage blades
- Identify the tools that you can use to manage the BladeSystem c-Class
- Name the server blade solutions and scenarios pertinent to the BladeSystem c-Class

HP BladeSystem Blade Server Enclosures

- Compare the original blade server enclosure with the enhanced blade server enclosure
- Perform a blade server enclosure upgrade
- Describe the blade server enclosure and identify its LEDs
- Describe a blade server sleeve

HP BladeSystem Power Subsystem

- Identify the components of an HP BladeSystem power subsystem
- Describe the power distribution options available in a BladeSystem
- Discuss the power configurations possible within the BladeSystem infrastructure
- Identify the power distribution units (PDUs) used in a BladeSystem

HP BladeSystem BL p-Class Blade Servers

- Identify the features and benefits of the blade servers offered in the HP BladeSystem portfolio
- List and describe the HP BladeSystem BL p-Class blade servers

HP BladeSystem p-Class Network Connectivity Options

- Discussion of general networking technology concepts
- Explain the enclosure network and iLO signal routing
- Describe the blade server signal routing
- Describe and position the HP BladeSystem network interconnect options
- Explain the technical aspects of HP BladeSystem patch panels
- Explain the technical aspects of HP BladeSystem network switches
- List and describe the HP BladeSystem multifunction network adapters

HP BladeSystem p-Class Storage Options

- Identify the storage solutions supported by HP BladeSystem and explain their benefits: DAS, NAS and SAN
- Describe the BladeSystem SAN connectivity options
- Discuss the process of booting from a SAN
- Describe the technical features and benefits of the BladeSystem SAN switches: - Brocade 4Gb SAN Switch, McDATA 4Gb SAN Switch

HP BladeSystem Infrastructure Installation

- Identify site requirements for HP BladeSystem solutions deployment
- Plan a target data center environment
- Describe the steps involved in setting up the p-Class blade infrastructure

HP BladeSystem Configuration

- Configuring an Interconnect Switch
- Configuring a SAN Switch
- Configuring the Blade Infrastructure

ProLiant BL p-Class Blade Server Deployment

- Describe iLO operation and functions for BladeSystems
- Discuss Rapid Deployment (RDP) operation and functions for BladeSystems

ProLiant BL p-Class Blade Server Management

- Describe how to manage HP BladeSystems using iLO technology
- Identify functions and components of HP SIM
- Name the features and benefits of BladeSystem Integrated Management
- Discuss how OVO for Windows provides management services for HP BladeSystems
- Describe the features and benefits of the HP Server Console Switch and HP Serial Console Servers

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