

# HP Education Services Course overview

Virtual Infrastructure with ESX Server and VirtualCenter (U8699S)



This 4 day, hands-on training course explores VMware ESX Server virtual infrastructure software for consolidating and partitioning servers in high-performance environments. This course covers the use of the product both itself and also in conjunction with VMware VirtualCenter, virtual infrastructure management software. The course is 50 percent lecture and 50 percent labs

## Audience

- This course is designed for system administrators and systems engineers who are responsible for the integration, administration and management of ESX Server. The course is suitable for both users of VMware VirtualCenter and ESX Server administrators.

## Prerequisites

- System administration experience on Microsoft Windows (2003, XP, 2000, or NT 4(0)) or Linux.

## Course Objective

- Install and configure ESX Server, VMware VirtualCenter, and multiple guest virtual machines.
- Create VMware virtual machines, network them and set their priorities for accessing resources.
- Move and clone virtual machines.
- Ensure high availability for applications inside virtual machines.
- Monitor the state of the system and virtual machines.
- Troubleshoot ESX Server in a systematic manner.
- Deploy ESX Server and VMware VirtualCenter in alignment with VMware's best-practice recommendations.

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**Course Title:** Virtual Infrastructure with ESX Server and VirtualCenter

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**HP Product Number:** U8699S

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**Category/Subcategory:** ProLiant

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**Course Length:** 4 days

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**Level:** Intermediate

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**Delivery Language:** English

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**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.

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# Detailed Course Outline

## Virtual infrastructure overview

- VMware products: functions and applications.

## Installation and configuration

- Set-up of ESX Server and VMware VirtualCenter.

## Creation and management of virtual machines

- Using ESX Server and VMware VirtualCenter.

## VMFS and Storage Area Networks

- Storage management technologies.

## Networking

- Virtual switch configuration, NIC teaming, failover.

## Resource management

- Setting VM priorities on CPU, memory, etc.

## Virtual machine access control

- Controlling administrator rights.

## Deployment and migration

- Cloning, use of templates, hot and cold migrations.

## Monitoring your environment

- Workload assessment.
- Service console monitoring.

## Disaster preparedness

- Clustering, backups, failover.

## Structure of ESX Server

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- System architecture.

## Troubleshooting

- Systematic isolation of problems.
- Common symptoms, faults, fixes.

## Virtual infrastructure deployment

- Sizing and deployment guidelines.
- Best practices.

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