

INEW 2071 VMware Infrastructure: Install, Configure and Manage

Length: 40 hours

Course Description: This course explores installation, configuration, and management of VMware Infrastructure, which consists of VMware ESX Server and VMware VirtualCenter. Upon completion of this course, students are prepared for the examination to become a VMware Certified Professional. Students who complete this course should enroll next in VMware Infrastructure: Deploy, Secure, and Analyze.

Prerequisites System administration experience on Microsoft Windows® or Linux® operating systems

Learning Objectives At the end of the course, you should gain an understanding of the functionality in VMware Infrastructure and be able to:

- Install ESX Server
- Configure ESX Server networking and storage
- Install and configure VirtualCenter
- Control user access to the VMware infrastructure
- Deploy and manage virtual machines using VirtualCenter
- Allocate and monitor virtual machines' resources
- Ensure high availability of applications

Troubleshooting guidance, best practices and lab exercises are interspersed throughout the course

Who Should Attend? System administrators, systems engineers, and operators responsible for ESX Server and/or VirtualCenter

Outline

Module 1: Introduction

Module 2: Virtual Infrastructure Overview

- Discussion of virtualization and virtual infrastructure components

Module 3: ESX Server Installation

- Set-up of ESX Server

Module 4: Networking

- Configuration of virtual switches, network connections and port groups

Module 5: Storage

- Storage management technologies

Module 6: VirtualCenter Installation

- Set-up of VirtualCenter components

Module 7: VM Creation and Management

- Use of templates
- Use of VMware Converter Enterprise
- Manage using VMware VirtualCenter and Web Access

- Use of Guided Consolidation

Module 8: Virtual Infrastructure Access Control

- Controlling administrator rights

Module 9: Resource Management

- VMotion migrations
- Set-up of resource pools and a VMware Distributed Resources Scheduler (DRS) cluster
- Setting VM priorities on CPU, memory, and other resources

Module 10: Resource Monitoring

- Workload assessment
- Monitoring using VMware VirtualCenter

Module 11: Data and Availability Protection

- Backup strategies
- Set-up of a VMware High Availability (HA) cluster

Module 12: Planning VI Deployment

- Guidelines and best practices for a basic deployment