

VSFT8- VMware vSphere: Fast Track

Days: 5



Prerequisites: System administration experience with Microsoft Windows or Linux operating systems is required.

Audience: System administrators and system engineers who need comprehensive, accelerated training in VMware vSphere 8 deployment and advanced administration.

Description: This five-day extended-hour instructor-led course progresses from introductory through advanced VMware vSphere 8 administration. Through lecture and hands-on labs, students install, configure, manage, monitor, and maintain a highly available and scalable infrastructure using VMware ESXi 8 and VMware vCenter Server 8.

Course Objectives: Upon completion of this course, students will:

- Install and configure ESXi hosts and deploy vCenter.
- Create inventories, assign roles, and configure vCenter High Availability.
- Configure virtual networking and supported storage technologies.
- Create, clone, migrate, snapshot, and manage virtual machines and templates.
- Configure clusters using vSphere High Availability and Distributed Resource Scheduler.
- Manage the vSphere lifecycle, host compliance, enterprise networking and storage, and platform performance.

OUTLINE:

MODULE 1: VSPHERE AND VIRTUALIZATION

OVERVIEW

- Virtualization concepts and interfaces
- Compute, memory, networking, storage, and GPU interaction
- Install an ESXi host

MODULE 2: VCENTER MANAGEMENT

- Deploy and configure vCenter
- Inventory, licensing, permissions, tasks, and events
- Backup scheduling and High Availability

MODULE 3: DEPLOYING VIRTUAL MACHINES

- Create, provision, clone, and customize virtual machines
- Templates and content libraries
- VMware Tools and resource changes

MODULE 4: VSPHERE NETWORKING

- Standard and distributed switches
- Networking policies

MODULE 5: VSPHERE STORAGE

- Datastores and storage technologies
- Fibre Channel, iSCSI, VMFS, and NFS
- NVMe and iSER support

MODULE 6: MANAGING VIRTUAL MACHINES

- vMotion and Storage vMotion
- Snapshots
- CPU and memory allocation
- Tools repositories and backup concepts

MODULE 7: VSPHERE MONITORING

- VM and vCenter performance
- Resource monitoring and custom alarms
- Skyline capabilities

MODULE 8: VSPHERE CLUSTERS

- Cluster Quickstart
- Distributed Resource Scheduler
- High Availability and Fault Tolerance
- vSphere Cluster Services

MODULE 9: ESXI OPERATIONS

- Host profiles and configuration compliance

MODULE 10: VSPHERE LIFECYCLE

- Interoperability reports
- Lifecycle Manager, images, depots, compliance, and remediation
- VMware Tools and virtual-hardware upgrades

MODULE 11: NETWORK OPERATIONS

- Distributed switches
- Network I/O Control
- Distributed Services Engine

MODULE 12: STORAGE OPERATIONS

- vSAN architecture and requirements
- Storage policy-based management
- Virtual Volumes and Storage I/O Control