

**VMWare Course Content:35hours**

**Course Outline**

**Course Introduction**

- Introductions and course logistics
- Course objectives

**Introduction to VMware Visualization**

- Introduce virtualization, virtual machines, and vSphere components

**VMware ESX and ESXi**

- Introduce the architecture of ESX and ESXi
- Manually configure ESX/ESXi

**VMware vCenter Server**

- Install and configure vCenter Server components
- Manage vCenter Server inventory objects

**Networking**

- Create, configure, and manage vNetwork standard switches, network connections, and port groups

**Storage**

- Configure ESX/ESXi with iSCSI, NFS, and Fibre Channel storage
- Create and manage vSphere datastores
- Virtual Machines
- Deploy virtual machines using the Create New Virtual Machine wizard, templates, cloning, and
- VMware vCenter Converter
- Modify and manage virtual machines
- Perform Storage vMotion migrations

**Access Control**

- Control user access through roles and permissions Resource Monitoring
- Control virtual machine access to CPU, memory, and I/O resources
- Introduce VMkernel methods for optimizing CPU and memory usage
- Monitor resource usage using vCenter Server performance graphs and alarms Data Protection
- Back up and recover virtual machines using VMware Data Recovery Scalability
- Manage multiple vCenter Server inventories using VMware vCenter Linked Mode
- Manage ESX/ESXi configuration compliance using Host Profiles
- Create, configure, and manage vNetwork distributed switches, network connections, and port groups
- Perform VMware vMotion™ migrations
- Configure and manage a VMware Distributed Resource Scheduler cluster
- Configure and manage VMware Distributed Power Management High Availability
- Configure and manage a VMware High Availability cluster
- Configure fault-tolerant virtual machines using VMware Fault Tolerance Patch Management
- Manage patching and patch compliance using vCenter Update Manager Installing VMware ESX and ESXi
- Introduce ESX and ESXi Installable installation