VMware syllabus

1 **Introduction to Virtualization Technologies**
• VMware workstation
• VMware player
• Virtual box

2. Introduction to VMware Virtualization
• Introduce Virtualization
• Introduce Virtual machines
• Introduce vSphere components

3. VMware ESX and ESXi (ESX/ESXi 4.1**)**
• Introduce the architecture of ESX and ESXi
• Manually configure ESX/ESXi

4. VMware vCenter Server
• Install and configure vCenter Server components
• Manage vCenter Server inventory objects

5. Networking
• Create, configure, and manage vNetwork standard switches
• Create, configure, and manage network connections
• Create, configure, and manage port groups

6. Storage
• Configure ESX/ESXi with iSCSI, NFS,.
• Create and manage vSphere datastores

7. 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

8. Access Control
• Control user access through roles and permissions

9. 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

10. Data Protection
• Back up and recover virtual machines using VMware Data Recovery

11. 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

12. High Availability
• Configure and manage a VMware High Availability cluster
• Configure fault-tolerant virtual machines using VMware Fault Tolerance

13. Patch Management
• Manage patching and patch compliance using vCenter Update Manager