Course Title: VMware vSphere: Install, Configure, Manage

Course Description:
This hands-on training course explores installation, configuration, and management of VMware vSphere™, which consists of ESX/ESXi and vCenter Server.

VMware training is only available to individuals who may be a student in full or part time education, unemployed, career changers or trying to improve their knowledge and are paying for the training themselves. It is not for companies or corporate entities to obtain training for their employees – those individuals must go to a commercial VMware training offering through a VMware authorized training center.

Course Prerequisite(s):
System administration experience on Microsoft Windows or Linux operating

Course Objectives:
At the end of the course, you should gain an understanding of the functionality in VMware vSphere and be able to:
• Install and configure ESX or ESXi
• Install and configure vCenter Server components
• Configure and manage ESX/ESXi networking and storage using vCenter Server
• Deploy, manage, and migrate virtual machines
• Manage user access to the VMware infrastructure
• Use vCenter Server to monitor resource usage
• Use vCenter Server to increase scalability
• Use VMware vCenter Update Manager to apply ESX/ESXi patches
• Use vCenter Server to manage higher availability and data protection

Textbook(s): included in cost of course
VMWare IT Academy vSphere: Install, Configure, Manage [V5.5] – English Kit
Gilmore Global, p/n VAP-EN-VSICM55-KIT

Certification Notes:
Prepares you for the VCP certification
Lesson Plan – by week or session

Session 1:
Course Introduction, Introduction to VMware Virtualization Lecture,
Configuring VMware ESX and ESXi Lecture: Overview of ESX/ESXi,
Configuring ESX/ESXi
Lab 1: Configuring ESXi - Installing and Using VMware vCenter Server
Lecture: Installing vCenter Server
Lab 2: Installing vCenter Server - Using vCenter Server
Lab 3: Using vCenter Server Network Standard Switches

Session 2:
Lab 4: Standard Switches
Modifying Virtual Switch Properties
Lab 5: Network Design Storage Concepts IP Storage: iSCSI and NFS
Lab 6: Accessing IP Storage Fibre Channel SAN Storage VMFS Datastores

Session 3:
Lab 7: VMFS Datastores Virtual Machine Concepts Creating a Virtual Machine
Lab 8: Creating a Virtual Machine Creating Templates and Clones
Lab 9: Creating Templates and Clones

Session 4:
VMware vCenter Converter
Lab 10: VMware vCenter Converter Modifying Virtual Machines
Lab 11: Modifying a Virtual Machine Managing Virtual Machines
Lab 12: Managing Virtual Machines Access Control Lecture

Session 5:
Lab 13: Access Control Resource Monitoring Lecture: Resource Controls
and Resource Pools
Lab 14: Resource Pools Virtual CPU and Memory Concepts Monitoring
Resource Usage
Lab 15: Monitoring Performance Using Alarms

Session 7:
Lab 16: Using Alarms Data Protection
Lab 17: VDR Scalability Lecture: vCenter Linked Mode Host Profiles

Session 8:
Lab 18: Host Profiles vNetwork Distributed Switches
Lab 19: Create vNetwork Distributed Switch vMotion Migration
Lab 20: vMotion Migration VMware DRS Clusters

Session 9:
Lab 21: DRS Clusters VMware DPM
Lab 22: DPM High Availability
Lab 23: VMware HA Managing High Availability

Session 10:
Lab 24: VMware HA Network Redundancy Fault Tolerance
Lab 25: Configuring FT Patch Management
Lab 26: Using Update Manager Installing VMware ESX and ESXi