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.

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):
VMware vSphere 5.0: Install, Configure, Manage
Gilmore Global, p/n VAP-ENG-VSICM5-SK

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