NWA046 : VMware vSphere 6.7: Install, Configure, Manage.

Overview:
VMware vSphere: Install, Configure, Manage features intensive hands-on training that focuses on installing, configuring, and managing VMware vSphere® 6, which includes VMware ESXi™ 6 and VMware vCenter Server™ 6. This course prepares you to administer a vSphere infrastructure for an organization of any size and forms the foundation for most other VMware technologies in the software-defined data center.

Objectives:
- Describe the software-defined data center
- Deploy an ESXi host and create virtual machines
- Describe vCenter Server architecture
- Deploy a vCenter Server instance or VMware vCenter Server™ Appliance™
- Use vCenter Server to manage an ESXi host
- Configure and manage vSphere infrastructure with VMware vSphere® Client™ and VMware vSphere® Web Client
- Configure virtual networks with vSphere standard switches
- Use vCenter Server to manage various types of host storage: VMware vSphere® VMFS, NFS, virtual SAN, and Virtual Volumes
- Manage virtual machines, templates, clones, and snapshots
- Create a vApp
- Describe and use the content library
- Migrate virtual machines with VMware vSphere® vMotion®
- Use VMware vSphere® Storage vMotion® to migrate virtual machine storage
- Monitor resource usage and manage resource pools
- Use VMware vRealize™ Operations Manager™ to identify and solve issues through analytics and alerts
- Manage VMware vSphere® High Availability and VMware vSphere® Fault Tolerance
- Use VMware vSphere® Replication™ and VMware vSphere® Data Protection™ to replicate virtual machines and perform data recovery
- Use VMware vSphere® Distributed Resource Scheduler™ clusters to improve host scalability
- Use vSphere distributed switches to improve network scalability
- Use VMware vSphere® Update Manager™ to apply patches and perform basic troubleshooting of ESXi hosts, virtual machines, and vCenter Server operations

Intended Audience:
- System administrators
- Systems engineers

Outline:
- Course Introduction
  - Introductions and course logistics
  - Course objectives
  - References and resources
- Software-Defined Data Center
  - Introduce components of the software-defined data center
  - Describe where vSphere fits into the cloud architecture
  - Install and use vSphere Client
  - Overview of ESXi
- Creating Virtual Machines
  - Introduce virtual machines, virtual machine hardware, and virtual machine files
  - Create and work with virtual machines and templates
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- **vCenter Server**
  - Introduce the vCenter Server architecture
  - Deploy and configure vCenter Server Appliance
  - Use vSphere Web Client
  - Manage vCenter Server inventory objects and licenses

- **Configuring and Managing Virtual Networks**
  - Describe, create, and manage standard switches
  - Configure virtual switch security and load-balancing policies
  - Create, configure, and manage vSphere distributed switches, network connections, and port groups

- **Configuring and Managing Virtual Storage**
  - Introduce storage protocols and storage device types
  - Discuss ESXi hosts using iSCSI and NFS storage
  - Create and manage VMFS and NFS datastores
  - Introduce VMware Virtual SAN™
  - Introduce Virtual Volumes

- **Virtual Machine Management**
  - Use templates and cloning to deploy new virtual machines
  - Modify and manage virtual machines
  - Perform vSphere vMotion and vSphere Storage vMotion migrations
  - Create and manage virtual machine snapshots
  - Create vApps
  - Introduce the types of content libraries and how to deploy and use them

- **Resource Management and Monitoring**
  - Introduce virtual CPU and memory concepts
  - Configure and manage resource pools
  - Describe methods for optimizing CPU and memory usage
  - Use various tools to monitor resource usage
  - Create and use alarms to report certain conditions or events
  - Identify and troubleshoot virtual machine resource issues
  - Introduce vRealize Operations Manager for data center monitoring and management

- **vSphere HA and vSphere Fault Tolerance**
  - Explain the vSphere HA architecture
  - Configure and manage a vSphere HA cluster
  - Use vSphere HA advanced parameters
  - Introduce vSphere Fault Tolerance
  - Enable vSphere Fault Tolerance on virtual machines
  - Introduce vSphere Replication
  - Use vSphere Data Protection to back up and restore data

- **Host Scalability**
  - Describe the functions and benefits of a vSphere DRS cluster
  - Configure and manage a vSphere DRS cluster
  - Work with affinity and anti-affinity rules
  - Use vSphere HA and vSphere DRS together for business continuity

- **vSphere Update Manager and Host Maintenance**
  - Use vSphere Update Manager to manage ESXi patching
  - Install vSphere Update Manager and the vSphere Update Manager plug-in
  - Create patch baselines
  - Use host profiles to manage host configuration compliance
  - Scan and remediate hosts
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- Installing vSphere Components
  - Install ESXi
  - Introduce vCenter Server deployment options
  - Describe vCenter Server hardware, software, and database requirements
  - Discuss installation of vCenter Server Appliance and a vCenter Server instance
  - Demonstrate vCenter Server installation

Instructor:

- Arayuttho Rongsamkat
  - Microsoft Certified professional (MCP)
  - Microsoft Certified Systems Administrator (MSCA)
  - Microsoft Certified Systems Engineer (MSCE)
  - Cisco Certified Network Associate (CCNA)
  - Certificate of CompTIA Security+
  - Certified Ethical Hacker
  - Certified Wireless Network Administrator
  - Certified Wireless Security Professional

Duration in the training program: 5 days (30 hours)

Announcement: For more details, please visit http://www.nstdaacademy.com/trainingprogram

Timing: 9:00 - 16:00

Fee: 23,500 Baht (including VAT)

** The institute is a public sector institute, therefore not subject to withholding tax.

Location:

- Career for the Future Academy: CFA
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