

### 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

- 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

## Career for the Future Academy: CFA

- 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

### วิทยากร :



อาจารย์เอกฤทธิ ธรรมสถิต

- 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

จำนวนชั่วโมงในการฝึกอบรม : 5 วัน (30 ชั่วโมง)

กำหนดการอบรม : ตามตารางปฏิทินอบรมประจำปี <http://www.nstdaacademy.com/trainingprogram>

ช่วงเวลาฝึกอบรม: 9.00 - 16.00 น.

ค่าลงทะเบียนอบรม : ท่านละ 23,500 บาท (ราคารวมภาษีมูลค่าเพิ่มแล้ว)

\*\* สถาบันฯ เป็นหน่วยงานราชการ จึงไม่อยู่ในเกณฑ์ที่ต้องถูกหักภาษี ณ ที่จ่าย

### สถานที่ฝึกอบรม:

สถาบันพัฒนาบุคลากรแห่งอนาคต

เลขที่ 73/1 อาคารสำนักงานพัฒนาวิทยาศาสตร์และเทคโนโลยีแห่งชาติ (สวทช.) ชั้น 6

ถนนพระรามที่ 6 แขวงทุ่งพญาไท เขตราชเทวี กรุงเทพฯ 10400

### วิธีการสำรองที่นั่ง:

ติดต่อสำรองที่นั่งล่วงหน้า ในวัน-เวลาราชการ

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