W celu przeprowadzenia kalkulacji ceny tego szkolenia prosimy o kontakt z działem handlowym

Cel szkolenia:

By the end of the course, you should be able to meet the following objectives:

- Install and configure ESXi hosts
- Deploy and configure VMware vCenter® Server Appliance™
- Use VMware Host Client™, VMware vSphere® Web Client, and VMware vSphere® Client™ to manage the vCenter Server inventory and the vCenter Server configuration
- Create virtual networks with vSphere standard switches
- Describe the storage technologies supported by vSphere
- Configure virtual storage using iSCSI and NFS storage
- Create and manage VMware vSphere® VMFS datastores
- Use vSphere Client to create virtual machines, templates, clones, and snapshots
- Create a content library for deploying virtual machines
- Manage virtual machine resource usage and manage resource pools
- Migrate virtual machines with VMware vSphere® vMotion® and VMware vSphere® Storage vMotion®
- Describe the methods for protecting and recovering virtual machine data
- Create and manage a vSphere cluster that is enabled with VMware vSphere® High Availability and VMware vSphere® Distributed Resource Scheduler™
- Use VMware vSphere® Update Manager™ to apply patches and perform upgrades to ESXi hosts and virtual machines
- Encrypt virtual machines for additional security

Audience

- System administrators
- System engineers

Plan szkolenia:
○ Course Introduction
  ○ Introductions and course logistics
  ○ Course objectives
  ○ Describe the content of this course
  ○ Gain a complete picture of the VMware certification system
  ○ Familiarize yourself with the benefits of the VMware Education Learning Zone
  ○ Identify additional resources

○ Introduction to vSphere and the Software-Defined Data Center
  ○ Describe how vSphere fits into the software-defined data center and the cloud infrastructure
  ○ Explain how vSphere interacts with CPUs, memory, networks, and storage
  ○ Use vSphere Client to access and manage your vCenter Server system and ESXi host
  ○ Compare virtual machine hardware version 14 to other versions
  ○ Identify the virtual network adapters, and describe the enhanced VMXNET3
  ○ Compare the types of virtual disk provisioning
  ○ Install and configure ESXi host settings
  ○ Identify the advantages of ESXi Quick Boot

○ Creating Virtual Machine
  ○ Create, provision, and remove a virtual machine
  ○ Explain the importance of VMware Tools™
  ○ Describe how to import a virtual appliance OVF template

○ vCenter Server
  ○ Describe the vCenter Server architecture
  ○ Discuss how ESXi hosts communicate with vCenter Server
  ○ Access and configure vCenter Server Appliance
  ○ Use vSphere Client to manage the vCenter Server inventory
  ○ Add data center, organizational objects, and hosts to vCenter Server
  ○ Create custom inventory tags
  ○ Describe the rules for applying permissions
  ○ Create a custom role in vCenter Server
  ○ Create a vCenter Server Appliance backup schedule
  ○ Restore vCenter Server Appliance from a backup
  ○ Monitor vCenter Server Appliance

○ Configuring and Managing Virtual Networks
  ○ Describe, create, and manage standard switches
  ○ Configure virtual switch security, traffic-shaping and load-balancing policies
  ○ Compare vSphere distributed switches and standard switches
○ Describe the virtual switch connection types
○ Describe the new TCP/IP stack architecture
○ Use VLANs with standard switches

○ Configuring and Managing Virtual Storage
  ○ Identify storage protocols and storage device types
  ○ Discuss ESXi hosts using iSCSI, NFS, and Fibre Channel storage
  ○ Create and manage VMware vSphere® VMFS and NFS datastores
  ○ Explain how multipathing works with iSCSI, NFS, and Fibre Channel storage
  ○ Identify the advantages of VMware vSAN™

○ Virtual Machine Management
  ○ Use templates and cloning to deploy new virtual machines
  ○ Modify and manage virtual machines
  ○ Create an instant clone of a virtual machine
  ○ Identify the types of content libraries and how to deploy and use them
  ○ Add a hot-pluggable device
  ○ Dynamically increase the size of a virtual disk
  ○ Use customization specification files to customize a new virtual machine
  ○ Perform vSphere vMotion and vSphere Storage vMotion migrations
  ○ Create and manage virtual machine snapshots

○ Resource Management and Monitoring
  ○ Discuss CPU and memory concepts in a virtualized environment
  ○ Describe what overcommitment of a resource means
  ○ Identify additional technologies that improve memory usage
  ○ 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

○ vSphere HA and vSphere Fault Tolerance
  ○ Explain the vSphere HA architecture
  ○ Configure and manage a vSphere HA cluster
  ○ Use vSphere HA advanced parameters
  ○ Enforce infrastructural or intra-app dependencies during failover
  ○ Describe vSphere HA heartbeat networks and datastore heartbeats
  ○ Examine the features and functions of vSphere Fault Tolerance
  ○ Enable vSphere Fault Tolerance on virtual machines
  ○ Support vSphere Fault Tolerance interoperability with vSAN
○ Examine enhanced consolidation of vSphere Fault Tolerance virtual machines
○ Examine the features and functions of vSphere Replication

○ vSphere DRS
  ○ Describe the functions of a vSphere DRS cluster
  ○ Create a vSphere DRS cluster
  ○ View information about a vSphere DRS cluster
  ○ Configure virtual machine affinity, DRS groups, and VM-host affinity rules
  ○ Remove a host from a vSphere DRS cluster

○ vSphere Update Manager and Host Maintenance
  ○ Describe the architecture, components, and capabilities of vSphere Update Manager
  ○ Use vSphere Update Manager to manage the patching of ESXi, virtual machines, and vApps
  ○ Examine the features and functions of vSphere Update Manager EAM integration
  ○ Integrate vSphere Update Manager with vSphere DRS

○ Securing Virtual Machines
  ○ Set up encryption in your vSphere environment
  ○ Encrypt virtual machines
  ○ Encrypt core dumps
  ○ Enable encrypted vSphere vMotion
  ○ Describe support for virtual machine security features, such as UEFI secure boot, vTPM, and virtualization-based security

Wymagania:

This course requires completion of one of the following prerequisites:

○ System administration experience on Microsoft Windows, Linux operating system

Poziom trudności

Certyfikaty:

After completing the course, participants receive a certificate of completion of course.

Prowadzący:
Authorized VMware Trainer.