<u>**View Full Course Details including Latest Schedule Online**</u>

MICROSOFT

MCSA: Windows Server 2016 Boot Camp

This training provides IT and networking professionals the necessary skills for MCSA: Windows Server 2016

BONUS! Cyber Phoenix Subscription Included: All Phoenix TS students receive complimentary ninety (90) day access to the Cyber Phoenix learning platform, which hosts hundreds of expert asynchronous training courses in Cybersecurity, IT, Soft Skills, and Management and more!

Course Overview

This 10-day MCSA Windows Server 2016 Boot Camp training supplies individuals with the fundamental knowledge of Windows Server 2016 to prepare them to earn their MCSA Windows Server 2016 certification. This training encompasses content from these courses:

20740: Install, Storage, & Compute with Windows Server 2016

This training covers the management of storage and compute with Windows Server 2016. Students learn to understand the scenarios, requirements, and storage and compute options available and applicable to Windows Server 2016. Topics include:

- Prepare and install Nano Server, a Server Core installation, and plan a server upgrade and migration strategy
- Describe the various storage options, including partition table formats, basic and dynamic disks, file systems, virtual hard disks, and drive hardware, and explain how to manage disks and volumes
- Describe enterprise storage solutions, and select the appropriate solution for a given situation
- Implement and manage Storage Spaces and Data Deduplication
- Install and configure Microsoft Hyper-V, and configure virtual machines
- Deploy, configure, and manage Windows and Hyper-V containers
- Describe the high availability and disaster recovery technologies in Windows Server 2016
- Plan, create, and manage a failover cluster

- Implement failover clustering for Hyper-V virtual machines
- Configure a Network Load Balancing (NLB) cluster, and plan for an NLB implementation
- Create and manage deployment images
- Manage, monitor, and maintain virtual machine installations

20741: Networking with Windows Server 2016

This training reviews networking skills necessary to thrive with Windows Server 2016, including:

- Plan and implement an IPv4 network
- Implement Dynamic Host Configuration Protocol (DHCP)
- Implement IPv6
- Implement Domain Name System (DNS)
- Implement and manage IP address management (IPAM)
- Plan for remote access
- Implement DirectAccess
- Implement virtual private networks (VPNs)
- Implement networking for branch offices
- Configure advanced networking features
- Implement Software Defined Networking

20742: Identity with Windows Server 2016

This training teaches IT professionals how to deploy and configure Active Directory Domain Services (AD DS) in a distributed environment, how to implement Group Policy, how to perform backup and restore, and how to monitor and troubleshoot Active Directory-related issues with Windows Server 2016. Topics include:

- Install and configure domain controllers
- Manage objects in AD DS by using graphical tools and Windows PowerShell
- Implement AD DS in complex environments
- Implement AD DS sites, and configure and manage replication
- Implement and manage Group Policy Objects (GPOs)
- Manage user settings by using GPOs
- Secure AD DS and user accounts
- Implement and manage a certificate authority (CA) hierarchy with AD CS
- Deploy and manage certificates
- Implement and administer AD FS
- Implement and administer Active Directory Rights Management Services (AD RMS)
- Implement synchronization between AD DS and Azure AD
- Monitor, troubleshoot, and establish business continuity for AD DS services

Private Group Class Only

The MCSA: Windows Server 2016 is offered as a private group class non-certification exam course only.

Program Level

Advanced

Training Delivery Methods

Group Live

Duration

10 Days / 52 hours Training

CPE credits

26 NASBA CPE Credits

Field of Study

Information Technology

Advanced Prep

N/A

Course Registration

Candidates can choose to register for the course by via any of the below methods:

- Email: Sales@phoenixts.com
- Phone: 301-582-8200
- Website: www.phoenixts.com

Upon registration completion candidates are sent an automated course registration email that includes attachments with specific information on the class and location as well as pre-course study and test preparation material approved by the course vendor. The text of the email contains a registration

confirmation as well as the location, date, time and contact person of the class.

Online enrolment closes three days before course start date.

On the first day of class, candidates are provided with instructions to register with the exam provider before the exam date.

Complaint Resolution Policy

To view our complete Complaint Resolution Policy policy please click here: Complaint Resolution Policy

Refunds and Cancellations

To view our complete Refund and Cancellation policy please click here: Refund and Cancellation Policy

Course Outline

20740: Installation, Storage, and Compute with Windows Server 2016

Installing, Upgrading, and Migrating Servers and Workloads

- Introducing Windows Server 2016
- Preparing and installing Nano Server and Server Core
- Preparing for upgrades and migrations
- Migrating server roles and workloads
- Windows Server activation models
- Lab: Installing and configuring Nano Server

Configuring Local Storage

- Managing disks in Windows Server 2016
- Managing volumes in Windows Server 2016
- Lab: Managing disks and volumes in Windows Server 2016

Implementing Enterprise Storage Solutions

- Overview of direct-attached storage, network-attached storage, and storage area networks
- Comparing Fibre Channel, iSCSI, and FCoE
- Understanding iSNS, data centre bridging, and MPIO
- Configuring sharing in Windows Server 2016
- Lab: Planning and configuring storage technologies and components

Implementing Storage Spaces and Data Deduplication

- Implementing Storage Spaces
- Managing Storage Spaces
- Implementing Data Deduplication
- Lab: Implementing Storage Spaces
- Lab: Implementing Data Deduplication

Installing and Configuring Hyper-V And Virtual Machines

- Overview of Hyper-V
- Installing Hyper-V
- Configuring storage on Hyper-V host servers
- Configuring networking on Hyper-V host servers
- Configuring Hyper-V virtual machines
- Managing Hyper-V virtual machines
- Lab: Installing and configuring Hyper-V

Deploying and Managing Windows and Hyper-V Containers

- Overview of containers in Windows Server 2016
- Deploying Windows Server and Hyper-V containers
- Installing, configuring, and managing containers
- Lab: Installing and configuring containers

Overview of High Availability and Disaster Recovery

- Defining levels of availability
- Planning high availability and disaster recovery solutions with Hyper-V virtual machines
- Backing up and restoring the Windows Server 2016 operating system and data by using Windows Server B
- High availability with failover clustering in Windows Server 2016
- Lab: Planning and implementing a high availability and disaster recovery solution

Implementing Failover Clustering

- Planning a failover cluster
- Creating and configuring a new failover cluster
- Maintaining a failover cluster
- Troubleshooting a failover cluster
- Implementing site high availability with stretch clustering
- Lab: Implementing a failover cluster
- Lab: Managing a failover cluster

Implementing Failover Clustering With Windows Server 2016 Hyper-V

- Overview of integrating Hyper-V in Windows Server 2016 with failover clustering
- Implementing and maintaining Hyper-V virtual machines on failover clusters
- Key features for virtual machines in a clustered environment
- Lab: Implementing failover clustering with Hyper-V

Implementing Network Load Balancing

- Overview of NLB clusters
- Configuring an NLB cluster
- Planning an NLB implentation
- Lab: Implementing an NLB cluster

Creating and Managing Deployment Images

- Introduction to deployment images
- Creating and managing deployment images by using MDT
- Virtual machine environments for different workloads
- Lab: Using MDT to deploy Windows Server 2016

Managing, Monitoring, and Maintaining Virtual Machine Installations

- WSUS overview and deployment options
- Update management process with WSUS
- Overview of PowerShell DSC
- Overview of Windows Server 2016 monitoring tools
- Using Performance Monitor
- Monitoring Event Logs
- Lab: Implementing WSUS and deploying updates
- Lab: Monitoring and troubleshooting Windows Server 2016

20741: Networking with Windows Server 2016

Planning and implementing an IPv4 network

- Planning IPv4 addressing
- Configuring an IPv4 host
- Managing and troubleshooting IPv4 network connectivity
- Lab: Planning an IPv4 network
- Lab: Implementing and troubleshooting an IPv4 network

Implementing DHCP

- Overview of the DHCP server role
- Deploying DHCP
- Managing and troubleshooting DHCP
- Lab: Implementing DHCP

Implementing IPv6

- Overview of IPv6 addressing
- Configuring an IPv6 host
- Implementing IPv6 and IPv4 coexistence
- Transitioning from IPv4 to IPv6
- Lab: Configuring and evaluating IPv6 transition technologies

Implementing DNS

- Implementing DNS servers
- Configuring zones in DNS
- Configuring name resolution between DNS zones
- Configuring DNS integration with Active Directory Domain Services (AD DS)
- Configuring advanced DNS settings
- Lab: Planning and Implementing name resolution by using DNS
- Lab: Integrating DNS with AD DS
- Lab: Configuring advanced DNS settings

Implementing and Managing IPAM

- Overview of IPAM
- Deploying IPAM
- Managing IP address spaces by using IPAM
- Lab: Implementing IPAM

Remote Access in Windows Server 2016

- Overview of remote access
- Implementing Web Application Proxy
- Lab: Implementing Web Application Proxy

Implementing DirectAccess

- Overview of DirectAccess
- Implementing DirectAccess by using the Getting Started Wizard
- Implementing and managing an advanced DirectAccess infrastructure
- Lab: Implementing DirectAccess by using the Getting Started Wizard

- Lab: Deploying an advanced DirectAccess solution

Implementing VPNs

- Planning VPNs
- Implementing VPNs
- Lab: Implementing a VPN

Implementing Networking for Branch Offices

- Networking features and considerations for branch offices
- Implementing Distributed File System (DFS) for branch offices
- Implementing BranchCache for branch offices
- Lab: Implementing DFS for branch offices
- Lab: Implementing BranchCache

Configuring Advanced Networking Features

- Overview of high performance networking features
- Configuring advanced Microsoft Hyper-V networking features
- Lab: Configuring advanced Hyper-V networking features

Implementing Software Defined Networking

- Overview of Software Defined Networking
- Implementing network virtualization
- Implementing Network controller
- Lab: Deploying Network Controller

20742: Identity with Windows Server 2016

Installing and configuring domain controllers

- Overview of AD DS
- Overview of AD DS domain controllers
- Deploying a domain controller
- Lab: Deploying and administering AD DS

Managing objects in AD DS

- Managing user accounts
- Managing groups in AD DS
- Managing computer objects in AD DS

- Using Windows PowerShell for AD DS administration
- Implementing and managing OUs
- Lab: Managing AD DS objects
- Lab: Administering AD DS

Advanced AD DS infrastructure management

- Overview of advanced AD DS deployments
- Deploying a distributed AD DS environment
- Configuring AD DS trusts
- Lab: Domain and trust management in AD DS

Implementing and Administering AD DS Sites and Replication

- Overview of AD DS replication
- Configuring AD DS sites
- Configuring and monitoring AD DS replication
- Lab: Implementing AD DS sites and replication

Implementing Group Policy

- Introducing Group Policy
- Implementing and administering GPOs
- Group Policy scope and Group Policy processing
- Troubleshooting the application of GPOs
- Lab: Implementing a Group Policy infrastructure
- Lab: Troubleshooting Group Policy infrastructure

Managing User Settings with Group Policy

- Implementing administrative templates
- Configuring Folder Redirection, Software Installation, and Scripts
- Configuring Group Policy preferences
- Lab: Managing user settings with GPOs

Securing Active Directory Domain Services

- Securing domain controllers
- Implementing account security
- Implementing audit authentication
- Configuring managed service accounts
- Lab: Securing AD DS

Deploying and Managing AD CS

- Deploying CAs
- Administering CAs
- Troubleshooting and maintaining CAs
- Lab: Deploying and configuring a two-tier CA hierarchy

Deploying and Managing Certificates

- Deploying and managing certificate templates
- Managing certificate deployment, revocation, and recovery
- Using certificates in a business environment
- Implementing and managing smart cards
- Lab: Deploying and using certificates

Implementing and Administering AD FS

- Overiview of AD FS
- AD FS requirements and planning
- Deploying and configuring AD FS
- Overview of Web Application Proxy
- Lab: Implementing AD FS

Implementing and Administering AD RMS

- Overview of AD RMS
- Deploying and managing an AD RMS infrastructure
- Configuring AD RMS content protection
- Lab: Implementing an AD RMS infrastructure

Implementing AD DS Synchronization with Microsoft Azure AD

- Planning and preparing for directory synchronization
- Implementing directory synchronization by using Azure AD Connect
- Managing identities with directory synchronization
- Lab: Configuring directory synchronization

Monitoring, Managing, and Recovering AD DS

- Monitoring AD DS
- Managing the Active Directory database
- Active Directory backup and recovery options for AD DS and other identity and access solutions
- Lab: Recovering objects in AD DS

Exam Information

Exam 70-740: Installation, Storage and Compute with Windows Server 2016

Exam Objective	Percentage of Exam
Install Windows Servers in Host and Compute Environments	10-15%
Implement Storage Solutions	10-15%
Implement Hyper-V	20-25%
Implement Windows Containers	5-10%
Implement High Availability	30-35%
Maintain and Monitor Server Environments	10-15%

Exam 70-741: Networking with Windows Server 2016

Exam Objective	Percentage of Exam
Implement Domain Name System (DNS)	15-20%
Implement DHCP	25-30%
Implement IP Address Management (IPAM)	20-25%
Implementing Network Connectivity and Remote Access Solutions	15-20%
Implementing Core and Distributed Network Solutions	15-20%
Implementing Advanced Network Infrastructure	15-20%

Exam 70-742: Identity with Windows Server 2016

Exam Objective	Percentage of Exam
Install and Configure Active Directory Domain Services (AD DS)	20-25%
Manage and Maintain AD DS	15-20%
Create and Manage Group Policy	25-30%
Implement Active Directory Certificate Services (AD CS)	10-15%
Implement Identity Federation and Access Solutions	15-20%

BONUS! Cyber Phoenix Subscription Included: All Phoenix TS students receive complimentary ninety (90) day access to the Cyber Phoenix learning platform, which hosts hundreds of expert asynchronous training courses in Cybersecurity, IT, Soft Skills, and Management and more!

Phoenix TS is registered with the National Association of State Boards of Accountancy (NASBA) as a sponsor of continuing professional education on the National Registry of CPE Sponsors. State boards of accountancy have final authority on the acceptance of individual courses for CPE credit. Complaints re-garding registered sponsors may be submitted to the National Registry of CPE Sponsors through its web site: www.nasbaregistry.org

Call for Best Pricing

Price Match Guarantee

We'll match any competitor's price quote. Call us at 240-667-7757.

Included in this **MCSA: Windows Server 2016 Boot Camp**

- 10 days instructor-led training
- MCSA: Windows Server 2016 Boot Camp training book
- Notepad, pen and highlighter
- Variety of bagels, fruits, doughnuts and cereal available at the start of class*
- Tea, coffee and soda available throughout the day*
- Freshly baked cookies every afternoon*