APPLIED TECHNOLOGY ACADEMY

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Windows Server Administration (55371) Training

Microsoft Authorized Training · Applied Technology Academy

This five-day course will provide foundational level knowledge on cloud concepts; core Azure services; security, privacy, compliance, and trust; and Azure pricing and support. Note: This course provides an Azure pass and time for students to participate in hands-on labs. If you do not need hands-on experience, consider the AZ-900T01: Microsoft Azure Fundamentals (1 day) course. The content for both courses align to the AZ-900 exam objective domain.

LEVEL	DURATION	EXPERIENCE	AVERAGE SALARY	LABS
Intermediate	**5 Days**	**2 years: Window Admin**	**$88,349**	**Yes**

Course Overview

At the end of the course, students will be able to:

- Use administrative techniques and tools in Windows Server
- Implement identity Services
- Manage network infrastructure services
- Configure file servers and storage
- Manage virtual machines using Hyper-V virtualisation and containers
- Implement high availability and disaster recovery solutions
- Apply security features to protect critical resources
- Configure Remote Desktop Services
- Configure a virtual machine-based desktop infrastructure deployment
- Implement remote access and web services
- Implement service monitoring and performance monitoring and apply troubleshooting
- Perform upgrades and migration related to AD DS, and storage

Course Outline

- 1. Windows Server Administration Overview
- Introducing Windows Server
- Windows Server Core Overview
- Windows Server administration principles and tools overview
- Lab: Deploying and configuring Windows Server
- 2. Identity Services in Windows Server
- AD DS Overview
- Deploying Windows Server domain controllers

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- Azure AD overview
- Implementing Group Policy
- Active Directory Certificate Services Overview
- Lab: Implementing and configuring identity services
- 3. Network Infrastructure services in Windows Server
- Deploying and managing DHCP
- Deploying and managing DNS service
- Deploying and managing IPAM
- Remote Access Services in Windows Server
- Lab: Implementing and configuring network infrastructure services
- 4. File Servers and Storage management in Windows Server
- Volumes and File Systems in Windows Server
- Implementing sharing in Windows Server
- Implementing Storage Spaces in Windows Server
- Implementing Data Deduplication
- Implementing iSCSI
- Deploying Distributed File System
- Lab: Implementing storage solutions
- 5. Hyper-V virtualization and containers in Windows Server
- Hyper-V in Windows Server
- Configuring VMs
- Securing virtualization in Windows Server
- Containers in Windows Server
- Overview of Kubernetes
- Lab: Implementing and configuring virtualization
- 6. High Availability in Windows Server
- Planning for failover clustering implementation
- Creating and configuring a failover cluster
- Overview of stretch clusters
- High availability and disaster recovery solutions with Hyper-V VMs
- Lab: Implementing failover clustering
- 7. Disaster recovery in Windows Server
- Hyper-V Replica
- Backup and restore infrastructure in Windows Server
- Lab: Implementing Hyper-V Replica and Windows Server Backup
- 8. Windows Server security

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- Credentials and privileged access protection
- Hardening Windows Server
- JEA in Windows Server
- Securing and analyzing SMB traffic
- Windows Server update management
- Lab: Configuring security settings
- 9. RDS in Windows Server
- Overview of RDS
- Configuring a session-based desktop deployment
- Overview of personal and pooled virtual desktops
- Lab: Implementing Remote Desktop Services
- 10. Remote access and web services in Windows Server
- Implementing VPNs
- Implementing Always On VPN
- Implementing NPS
- Implementing Web Server in Windows Server
- Lab: Deploying network workloads
- 11. Server and performance monitoring in Windows Server
- Overview of Windows Server monitoring tools
- Using Performance Monitor
- Monitoring event logs for troubleshooting
- Lab: Monitoring and troubleshooting Windows Server
- 12. Upgrade and migration in Windows Server
- AD DS migration
- Storage Migration Service
- Windows Server migration tools
- Lab: Migrating server workloads

Intended Audience

- Server Administrators
- Information Technology (IT) Professionals

Prerequisites

Some exposure to and experience with Active Directory Domain Services (AD DS) concepts and technologies in Windows Server

Experience and an understanding of core networking technologies such as IP addressing, name resolution, and Dynamic Host Configuration Protocol (DHCP)

- Experience working with and an understanding of Microsoft Hyper-V and basic server virtualization concepts
- Experience working hands-on with Windows client operating systems such as Windows 10 or Windows 11
- Basic experience with Windows PowerShell

Follow-On Courses

- Microsoft Administer Windows Server (AZ-802)
- Microsoft Administering Windows Server Hybrid Core Infrastructure (AZ-800)

Ready to enroll? Call 800.674.3550 or email Info@AppliedTechAc.com — private team cohorts, GSA MAS purchasing, military credentialing funding, VA GI Bill and VR&E and student financing available.