

Windows Server Administrator Associate (Exam AZ-802)

COURSE CONTENT

GET IN TOUCH



Multisoft Systems
B - 125, Sector - 2, Noida



(+91) 9810-306-956



info@multosoftsystems.com



www.multosoftsystems.com

About Multisoft

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About Course

Windows Server Administrator Associate (Exam AZ-802) Training is designed for IT professionals responsible for administering Windows Server environments across on-premises, hybrid, and cloud infrastructures. The course covers Active Directory, Azure hybrid services, Hyper-V, networking, storage, failover clustering, disaster recovery, identity management, security, and server administration. Participants will develop the practical skills required to deploy, manage, secure, and troubleshoot Windows Server infrastructures while preparing for the Windows Server Administrator Associate (Exam AZ-802) certification.

Module 1: Windows Server Administration Fundamentals

- ✓ Windows Server Architecture
- ✓ AZ-802 Certification Overview
- ✓ Installation Methods
- ✓ Windows Server Editions
- ✓ Deployment Options
- ✓ Server Roles and Features
- ✓ Windows Admin Center Overview
- ✓ Initial Server Configuration

Module 2: Active Directory Domain Services (AD DS)

- ✓ AD DS Architecture
- ✓ Forests and Domains
- ✓ Organizational Units (OUs)
- ✓ Domain Controllers
- ✓ FSMO Roles
- ✓ Global Catalog
- ✓ Sites and Services
- ✓ Replication
- ✓ Trust Relationships
- ✓ AD Administrative Tools
- ✓ Delegation of Control
- ✓ AD Maintenance

Module 3: Identity and Group Policy Management

- ✓ User and Group Administration
- ✓ Fine-Grained Password Policies
- ✓ Authentication Methods
- ✓ Authorization
- ✓ Group Policy Objects (GPO)
- ✓ Group Policy Processing
- ✓ Group Policy Preferences
- ✓ Security Policies
- ✓ Login Scripts
- ✓ Policy Troubleshooting

Module 4: Windows Server Networking

- ✓ TCP/IP Configuration
- ✓ DNS Installation and Management
- ✓ DHCP Configuration
- ✓ IP Address Management (IPAM)
- ✓ Network Load Balancing
- ✓ Routing Fundamentals
- ✓ Remote Access Services
- ✓ VPN Configuration
- ✓ Windows Firewall

- ✓ Network Troubleshooting

Module 5: File Services and Storage Management

- ✓ NTFS Permissions
- ✓ Share Permissions
- ✓ Storage Spaces
- ✓ Storage Replica
- ✓ Distributed File System (DFS)
- ✓ File Server Resource Manager (FSRM)
- ✓ Quotas
- ✓ Deduplication
- ✓ iSCSI
- ✓ Disk Management
- ✓ SMB Configuration
- ✓ Storage Best Practices

Module 6: Hyper-V Virtualization

- ✓ Hyper-V Installation
- ✓ Virtual Machines
- ✓ Virtual Switches
- ✓ Virtual Hard Disks
- ✓ Checkpoints

- ✓ Dynamic Memory
- ✓ Live Migration
- ✓ Replica
- ✓ Nested Virtualization
- ✓ Performance Optimization

Module 7: Windows Server Containers

- ✓ Containers Overview
- ✓ Docker on Windows
- ✓ Windows Containers
- ✓ Hyper-V Containers
- ✓ Container Networking
- ✓ Container Storage
- ✓ Container Deployment
- ✓ Container Administration

Module 8: Hybrid Windows Server with Azure

- ✓ Azure Arc
- ✓ Azure File Sync
- ✓ Azure Backup
- ✓ Azure Site Recovery
- ✓ Hybrid Identity

- ✓ Azure Monitor Integration
- ✓ Azure Policy
- ✓ Hybrid Management
- ✓ Cloud Connectivity
- ✓ Hybrid Best Practices

Module 9: High Availability and Disaster Recovery

- ✓ Failover Clustering
- ✓ Cluster Validation
- ✓ Cluster Shared Volumes
- ✓ Storage Replica
- ✓ Disaster Recovery Planning
- ✓ Backup Strategies
- ✓ Business Continuity
- ✓ High Availability Design
- ✓ Recovery Testing
- ✓ Disaster Recovery Best Practices

Module 10: Windows Server Security

- ✓ Microsoft Defender
- ✓ Windows Defender Firewall
- ✓ BitLocker

- ✓ Credential Guard
- ✓ Windows LAPS
- ✓ Just Enough Administration (JEA)
- ✓ Just-In-Time Administration (JIT)
- ✓ Secure Remote Administration
- ✓ Security Baselines
- ✓ Server Hardening
- ✓ Security Auditing
- ✓ Threat Protection

Module 11: PowerShell and Automation

- ✓ PowerShell Fundamentals
- ✓ Scripting Basics
- ✓ Windows Server Automation
- ✓ Remote Administration
- ✓ Desired State Configuration (DSC)
- ✓ Scheduled Tasks
- ✓ Script Debugging
- ✓ Automation Best Practices

Module 12: Monitoring and Performance Management

- ✓ Windows Performance Monitor

- ✓ Event Viewer
- ✓ Resource Monitor
- ✓ Reliability Monitor
- ✓ Windows Admin Center Monitoring
- ✓ Server Health Checks
- ✓ Capacity Planning
- ✓ Performance Optimization
- ✓ Troubleshooting Methodology
- ✓ Log Analysis

Module 13: Windows Server Updates and Maintenance

- ✓ Windows Server Update Services (WSUS)
- ✓ Patch Management
- ✓ Feature Updates
- ✓ Backup Verification
- ✓ Maintenance Windows
- ✓ Server Lifecycle Management
- ✓ Configuration Documentation
- ✓ Operational Best Practices

Module 14: Enterprise Administration and Troubleshooting

- ✓ Active Directory Troubleshooting

- ✓ DNS Troubleshooting
- ✓ DHCP Troubleshooting
- ✓ Replication Issues
- ✓ Authentication Problems
- ✓ Network Diagnostics
- ✓ Storage Troubleshooting
- ✓ Hyper-V Troubleshooting
- ✓ Cluster Troubleshooting
- ✓ Performance Troubleshooting
- ✓ Disaster Recovery Scenarios

Module 15: Enterprise Implementation Project

- ✓ Hybrid Infrastructure Deployment
- ✓ Active Directory Implementation
- ✓ Hybrid Azure Integration
- ✓ Secure Windows Server Deployment
- ✓ High Availability Configuration
- ✓ Storage Implementation
- ✓ PowerShell Automation Project
- ✓ Enterprise Administration Best Practices
- ✓ Certification Practice Labs
- ✓ End-to-End Enterprise Server Administration Project