

APEX COMPUTER EDUCATION

An ISO 9001:2015 Certified Institute

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Course Outline

Microsoft Certified: Azure Administrator (AZ-104)

- **Module 1: Introduction To Cloud Computing**
 - What Is Cloud Computing
 - Advantages Of Cloud Computing
 - Service Models (Saas, Paas, Iaas)
 - Deployment Models
 - Overview Of Private / Public / Hybrid / Community Cloud
- **Module 2: Manage Azure AD Objects**
 - Create Users And Groups
 - Manage User And Group Properties
 - Manage Device Settings
 - Perform Bulk User Updates
 - Manage Guest Accounts
 - Configure Azure AD Join
 - Configure Self-Service Password Reset
- **Module 3: Manage Role-Based Access Control (RBAC)**
 - Create A Custom Role
 - Provide Access To Azure Resources By Assigning Roles
 - Interpret Access Assignments
 - Manage Multiple Directories
- **Module 4: Manage Subscriptions And Governance**
 - Configure Azure Policies
 - Configure Resource Locks
 - Apply Tags
 - Create And Manage Resource Groups
 - Manage Subscriptions
 - Configure Cost Management

- Configure Management Groups
- **Module 5: Manage Storage Accounts**
 - Configure Network Access To Storage Accounts
 - Create And Configure Storage Accounts
 - Generate Shared Access Signature
 - Manage Access Keys
 - Implement Azure Storage Replication
 - Configure Azure AD Authentication For A Storage Account
- **Module 6: Manage Data In Azure Storage**
 - Export From Azure Job
 - Import Into Azure Job
 - Install And Use Azure Storage Explorer
 - Copy Data By Using Azcopy
- **Module 7: Configure Azure Files And Azure Blob Storage**
 - Create An Azure File Share
 - Create And Configure Azure File Sync Service
 - Configure Azure Blob Storage
 - Configure Storage Tiers For Azure Blobs
- **Module 8: Configure Vms For High Availability And Scalability**
 - Configure High Availability Deploy And Configure Scale Sets
- **Module 9: Automate Deployment And Configuration Of Vms**
 - Modify Azure Resource Manager (ARM) Template
 - Configure VHD Template Deploy From Template
 - Save A Deployment As An ARM Template
 - Automate Configuration Management By Using Custom Script
 - Extensions
- **Module 10: Create And Configure Vms**
 - Configure Azure Disk Encryption
 - Move Vms From One Resource Group To Another
 - Manage VM Sizes Add Data Discs Configure Networking
 - Redeploy Vms
- **Module 11: Create And Configure Containers**
 - Create And Configure Azure Kubernetes Service (AKS)
 - Create And Configure Azure Container Instances (ACI)
- **Module 12: Create And Configure Web Apps**

- Create And Configure App Service
- Create And Configure App Service Plans
- **Module 13: Implement And Manage Virtual Networking**
 - Create And Configure VNET Peering
 - Configure Private And Public IP Addresses, Network Routes, Network Interface, Subnets, And Virtual Network
- **Module 14: Configure Name Resolution**
 - Configure Azure DNS Configure Custom DNS Settings
 - Configure A Private Or Public DNS Zone
- **Module 15: Secure Access To Virtual Networks**
 - Create Security Rules
 - Associate An NSG To A Subnet Or Network Interface
 - Evaluate Effective Security Rules
 - Deploy And Configure Azure Firewall
 - Deploy And Configure Azure Bastion Service
- **Module 16: Configure Load Balancing**
 - Configure Application Gateway
 - Configure An Internal Load Balancer
 - Configure Load Balancing Rules
 - Configure A Public Load Balancer
 - Troubleshoot Load Balancing
- **Module 17: Monitor And Troubleshoot Virtual Networking**
 - Monitor On-Premises Connectivity
 - Use Network Performance Monitor
 - Use Network Watcher
 - Troubleshoot External Networking
 - Troubleshoot Virtual Network Connectivity
- **Module 18: Integrate An On-Premises Network With An Azure Virtual Network**
 - Create And Configure Azure VPN Gateway
 - Create And Configure Vpns
 - Configure Expressroute
 - Configure Azure Virtual WAN
- **Module 19: Monitor Resources By Using Azure Monitor**
 - Configure And Interpret Metrics

- Configure Log Analytics
- Query And Analyze Logs
- Set Up Alerts And Actions
- Configure Application Insights
- **Module 20: Implement Backup And Recovery**
 - Configure And Review Backup Reports
 - Perform Backup And Restore Operations By Using Azure Backup Service
 - Create A Recovery Services Vault
 - Create And Configure Backup Policy
 - Perform Site-To-Site Recovery By Using Azure Site Recovery

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