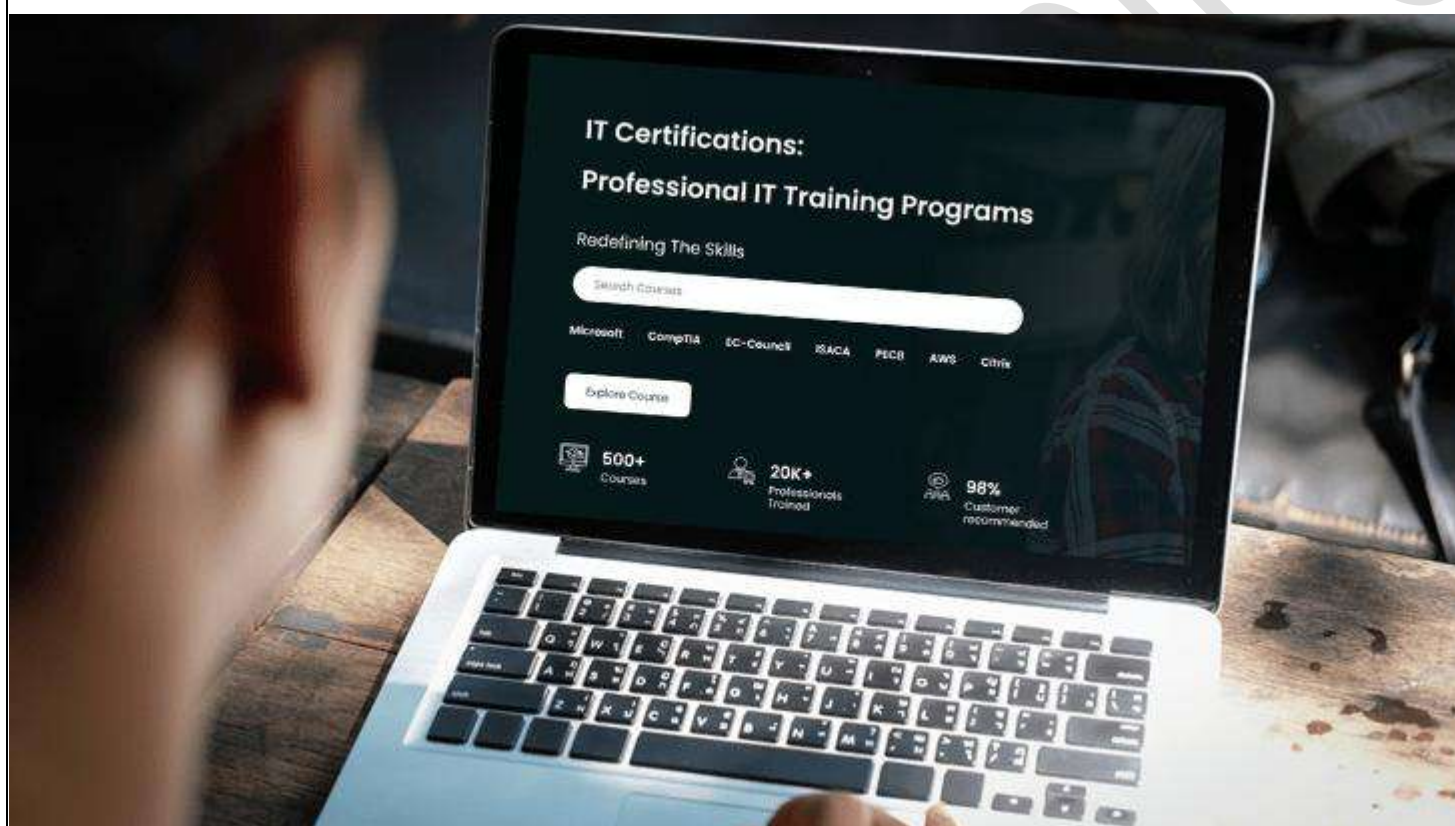# AZ-900T00: MICROSOFT AZURE FUNDAMENTALS TRAINING

Duration: 1 Day

Course Description

AZ-900T00: Microsoft Azure Fundamentals Training is focused on helping dynamic IT professionals acquire robust knowledge of core Azure concepts and services. It provides an understanding in service models like Paas, Iaas, and Saas, to explore key elements like Azure subscriptions, products, and security.

This technical course is built to develop skills in Azure management tools and solutions while familiarizing with detailed information on SLAs, service lifecycles, planning, supporting, and managing options.

This certification is the perfect step to kick-start your learning journey, which will lead you to advance opportunities in your career.

Who should attend this course?

- Professionals who are aiming to start their career with Microsoft Azure should consider completing this course.
- This training helps candidates to be prepared for the AZ-900 examination.
- This course helps individuals to understand Microsoft Azure. It includes lectures, hands-on labs, demonstrations, and an Azure pass with an optional lab environment.
- Potential students with technical or non-technical backgrounds, who are preparing for the Az-900 exam and Microsoft Certified Azure Fundamentals Certification.
- Those interested individuals who are willing to utilize Azure Fundamentals Certification for future roles. This can include:
  - Administrator
  - Business User
  - Developer
  - Student
  - Technology manager
  - Analyst

What you will learn

- Learn and identify various benefits and service types that include Paas, Saas, and Iaas.
- Gain core comprehension of Azure management, architectural components, functions, products, and security.
- Develop skills in access management and identification of its risks.
- Get familiar with Azure subscription, support, service lifecycles, and SLAs.

Prerequisites

- There is no prerequisite for taking this course. However, a technical understanding of cloud concepts is helpful.

What Exam Do I Need To Get Certified?

- Exam AZ-900

<u>Curriculum</u>

Module 1: Describe cloud computing

- Define cloud computing
- Describe the shared responsibility model
- Define cloud concepts and models, including public, private, and hybrid
- Identify appropriate use cases for each cloud model
- Describe the consumption-based model
- Compare cloud pricing models

Module 2: Describe the benefits of using cloud services

- Describe the benefits of high availability and scalability in the cloud
- Describe the benefits of reliability and predictability in the cloud
- Describe the benefits of security and governance in the cloud
- Describe the benefits of manageability in the cloud

Module 3: Describe cloud service types

- Describe Infrastructure as a Service (IaaS)
- Describe Platform as a Service (PaaS)
- Describe Software as a Service (SaaS)
- Identify appropriate use cases for each cloud service (IaaS, PaaS, SaaS)

Module 4: Describe the core architectural components of Azure

- Describe Azure regions, region pairs, and sovereign regions
- Describe Availability Zones
- Describe Azure datacenters
- Describe Azure resources and Resource Groups
- Describe subscriptions
- Describe management groups
- Describe the hierarchy of resource groups, subscriptions, and management groups
- Lab: Explore the Learn sandbox
- Lab: Create an Azure resource

Module 5: Describe Azure compute and networking services

- Compare compute types, including container instances, virtual machines, and functions
- Describe virtual machine (VM) options, including VMs, Virtual Machine Scale Sets, availability sets, Azure Virtual Desktop
- Describe resources required for virtual machines
- Describe application hosting options, including Azure Web Apps, containers, and virtual machines
- Describe virtual networking, including the purpose of Azure Virtual Networks, Azure virtual subnets, peering, Azure DNS, VPN Gateway, and ExpressRoute
- Define public and private endpoints
- Lab: Create an Azure Virtual Machine
- Lab: Configure network access

Module 6: Describe Azure storage services

- Compare Azure storage services
- Describe storage tiers
- Describe redundancy options

- Describe storage account options and storage types
- Identify options for moving files, including AzCopy, Azure Storage Explorer, and Azure File Sync
- Describe migration options, including Azure Migrate and Azure Data Box
- Lab: Create a storage blob

Module 7: Describe Azure identity, access, and security

- Describe directory services in Azure, including Azure Active Directory (AD) and Azure AD DS
- Describe authentication methods in Azure, including single sign-on (SSO), multifactor authentication (MFA), and passwordless
- Describe external identities and guest access in Azure
- Describe Azure AD Conditional Access
- Describe Azure Role-Based Access Control (RBAC)
- Describe the concept of Zero Trust
- Describe the purpose of the defense-in-depth model
- Describe the purpose of Microsoft Defender for the Cloud

Module 8: Describe cost management in Azure

- Describe factors that can affect costs in Azure
- Compare the Pricing calculator and Total Cost of Ownership (TCO) calculator
- Describe Azure Cost Management Tool
- Describe the purpose of tags
- Lab: Estimate workload costs by using the Pricing calculator
- Lab: Compare workload costs using the TCO calculator

Module 9: Describe features and tools in Azure for governance and compliance

- Describe the purpose of Azure Blueprints
- Describe the purpose of Azure Policy
- Describe the purpose of resource locks
- Describe the purpose of the Service Trust portal
- Lab: Configure a resource lock

Module 10: Describe features and tools for managing and deploying Azure resources

- Describe Azure portal
- Describe Azure Cloud Shell, including Azure CLI and Azure PowerShell
- Describe the purpose of Azure Arc
- Describe Azure Resource Manager (ARM) and Azure ARM templates

Module 11: Describe monitoring tools in Azure

- Describe the purpose of Azure Advisor
- Describe Azure Service Health
- Describe Azure Monitor, including Azure Log Analytics, Azure Monitor Alerts, and Application Insights

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