



# GTech Learn

*"Our focus is your Success"*



## Self-Paced Course

# AZ-900-SP : Microsoft Azure Fundamentals

<b>Duration:</b> 6 Hours	<b>Level:</b> Beginner	<b>Role:</b> Administrator
<b>Certification:</b> Available	<b>Register:</b> <a href="#">Click Here</a>	<b>Instructor-Led:</b> <a href="#">Click Here</a>

### What's included?

- ✓ Learn from Microsoft Certified Trainer (MCT's)
- ✓ Lifetime Access over Videos
- ✓ Exam Preps / Practice Tests
- ✓ Achievement Badges from Microsoft
- ✓ Completion Certificate
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### What do you get?

- ✓ Full HD Recorded Videos
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Infrastructure  
Azure

Training Services

Email: [info@gtechlearn.com](mailto:info@gtechlearn.com)

## Overview

This one-day course will provide foundational level knowledge on Azure concepts; core Azure services; core solutions and management tools; general security and network security; governance, privacy, and compliance features; Azure cost management and service level agreements.

## Audience Profile

This course is suitable for program managers and technical sales, with a general IT background. These students want to learn about our offerings, see how components are implemented, and ask questions about products and features. This course does not provide an Azure pass or time in the classroom for students to do any hands-on activities. Students can get a free trial and do the walkthroughs outside of class. This course is primarily lecture and demonstrations. This course will help prepare someone for the AZ-900 exam.

## Contents

### Module 1: Describe core Azure concepts

In this module, you'll take an entry level end-to-end look at Azure and its capabilities, which will provide you with a solid foundation for completing the available modules for Azure Fundamentals.

#### Lessons

- Introduction to Azure fundamentals
- Discuss Azure fundamental concepts
- Describe core Azure architectural components

After completing this module, students will be able:

- Understand the benefits of cloud computing in Azure and how it can save you time and money.
- Explain concepts such as high availability, scalability, elasticity, agility, and disaster recovery.
- Describe core Azure architecture components such as subscriptions, management groups, and resources.
- Summarize geographic distribution concepts such as Azure regions, region pairs, and availability zones.

### Module 2: Describe core Azure services

In this module, you learn about core Azure services like Azure database, Azure compute, Azure storage, and Azure Networking.

#### Lessons

- Explore Azure database and analytics services
- Explore Azure compute services
- Explore Azure Storage services

- Explore Azure networking services

After completing this module, students will be able:

- Understand the services available in Azure including compute, network, storage, and databases.
- Identify virtualization services such as Azure VMs, Azure Container Instances, and Azure Kubernetes.
- Compare Azure's database services such as Azure Cosmos DB, Azure SQL, and Azure Database for MySQL.
- Examine Azure networking resources such as Virtual Networks, VPN Gateways, and Azure ExpressRoute.
- Summarize Azure storage services such as Azure Blob Storage, Azure Disk Storage, and Azure File Storage.

## Module 3: Describe core solutions and management tools on Azure

In this module, you'll learn about AI machine learning, Azure DevOps, monitoring fundamentals, management fundamentals, serverless computing fundamentals, and IoT fundamentals.

### Lessons

- Choose the best AI service for your needs
- Choose the best tools to help organizations build better solutions
- Choose the best monitoring service for visibility, insight, and outage mitigation
- Choose the best tools for managing and configuring your Azure environment
- Choose the best Azure serverless technology for your business scenario
- Choose the best Azure IoT service for your application

After completing this module, students will be able:

- Choose the correct Azure AI service to address different kinds of business challenges.
- Choose the best software development process tools and services for a given business scenario.
- Choose the correct cloud monitoring service to address different kinds of business challenges.
- Choose the correct Azure management tool to address different kinds of technical needs.
- Choose the right serverless computing technology for your business scenario.
- Choose the best Azure IoT service for a given business scenario.

## Module 4: Describe general security and network security features

In this module, you will learn how to protect yourself against security threats, and secure your networks with Azure.

### Lessons

- Protect against security threats on Azure
- Secure network connectivity on Azure

After completing this module, students will be able:

- Strengthen your security posture and protect against threats by using Azure Security Center.
- Collect and act on security data from many different sources by using Azure Sentinel.
- Manage dedicated physical servers to host your Azure VMs for Windows and Linux.
- Identify the layers that make up a *defense in depth* strategy.
- Explain how Azure Firewall enables you to control what traffic is allowed on the network.
- Configure network security groups to filter network traffic to and from Azure resources.
- Explain how Azure DDoS Protection helps protect your Azure resources from DDoS attacks.

## Module 5: Describe identity, governance, privacy, and compliance features

In this module, you will learn about Azure identity services, how to build a cloud governance strategy, and privacy, compliance and data protection standards on Azure.

### Lessons

- Secure access to your applications by using Azure identity services
- Build a cloud governance strategy on Azure
- Examine privacy, compliance, and data protection standards on Azure

After completing this module, students will be able to:

- Explain the difference between authentication and authorization.
- Describe how Azure Active Directory provides identity and access management.
- Explain the role single sign-on (SSO), multifactor authentication, and Conditional Access play.
- Make organizational decisions about your cloud environment by using the CAF for Azure.
- Define who can access cloud resources by using Azure role-based access control.
- Apply a resource lock to prevent accidental deletion of your Azure resources.
- Apply tags to your Azure resources to help describe their purpose.
- Control and audit how your resources are created by using Azure Policy.
- Enable governance at scale across multiple Azure subscriptions by using Azure Blueprints.
- Explain the types of compliance offerings that are available on Azure.
- Gain insight into regulatory standards and compliance on Azure.
- Explain Azure capabilities that are specific to government agencies.

## Module 6: Describe Azure cost management and service level agreements

In this module, you will learn how to plan and manage Azure costs, and how to choose the right Azure services through SLAs and service lifecycle.

### Lessons

- Plan and manage your Azure costs
- Choose the right Azure services by examining SLAs and service lifecycle

After completing this module, students will be able to:

- Use the Total Cost of Ownership Calculator.

- Describe the different ways you can purchase Azure products and services.
- Use the Pricing calculator to estimate the monthly cost of running your cloud workloads.
- Define the major factors that affect total cost and apply recommended practices to minimize cost.
- Describe what a service-level agreement (SLA) is and why SLAs are important.
- Identify factors, such as the service tier you choose, that can affect an SLA.
- Combine SLAs to compute a composite SLA.
- Describe the service lifecycle in Azure.

## About GTech Learn

Established in 2011 in the USA, GTech Learn is one of the leading IT training organizations in North America & South East Asia. Driven by its unique USPs, GTech Learn is spurring competition, meeting the unmet needs of customers, assisting in skills upgrade, and supplementing talent pools with its presence in the USA, Canada, Singapore and India. This is consistent with our vision to help our Learners with skills upgrade for enhanced career opportunities.

As a Microsoft Learning Partner, we offer a broad range of learning solutions across the full Microsoft technology stack that can be customized.


Since 2011, GTech Learn has been developing custom-fit learning solutions that involve creating and delivering maximum results.

We have successfully helped all types of businesses, government entities, and individuals. For this reason, GTech has chosen by Microsoft to deliver comprehensive learning programs around the globe.

With flexible learning options, state-of-the-art delivery methods, numerous language preferences, experienced instructors, and complete dedication to our students, GTech Learn has the capabilities to help students develop their Microsoft skill sets and achieve increasingly high standards of productivity while organizations of all sizes realize the full potential of their technology investments.

## Our Accreditations with Microsoft






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