

AZ-900: Microsoft Azure Fundamentals

Level: Beginner

Duration: 16–20 Hours

Course Overview

The **Microsoft Azure Fundamentals (AZ-900)** course provides foundational knowledge of cloud concepts, core Azure services, pricing, SLA, and Azure governance. It is designed for individuals new to cloud or Azure, and is a recommended first step before advancing to associate or expert-level Azure certifications.

Course Objectives

- Understand cloud computing concepts and Azure architecture
 - Identify core Azure services and solutions
 - Describe security, compliance, and privacy in Azure
 - Learn Azure pricing, SLA, and cost management
 - Prepare for the **AZ-900 Microsoft Azure Fundamentals** certification exam
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Course Outline

Module 1: Cloud Concepts

- What is Cloud Computing
 - Benefits of using Cloud Services
 - Cloud service models: IaaS, PaaS, SaaS
 - Public, private, and hybrid cloud models
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Module 2: Core Azure Services

- Azure global infrastructure: regions, availability zones
- Core resources: Virtual Machines, Azure App Services, Azure SQL
- Azure Resource Manager and resource groups
- Azure Marketplace and deployment tools

Module 3: Azure Core Solutions and Management Tools

- Internet of Things (IoT), Machine Learning, and AI solutions
- Azure DevOps and GitHub
- Azure Portal, PowerShell, CLI, and Cloud Shell
- Azure Advisor and Azure Monitor

Module 4: General Security and Network Security Features

- Azure Security Center
- Azure Key Vault and Azure DDoS Protection
- Azure Firewall, Network Security Groups (NSGs)
- Microsoft Defender for Cloud

Module 5: Identity, Governance, Privacy, and Compliance Features

- Azure Active Directory and role-based access control (RBAC)
- Subscription and management group structure
- Azure Policy and Blueprints
- Microsoft compliance offerings and Trust Center

Module 6: Azure Pricing, SLA, and Lifecycle

- Azure pricing calculator and total cost of ownership (TCO)
- Service Level Agreements (SLAs) and service lifecycle
- Azure Reservations and cost management tools
- Factors affecting Azure costs and optimization tips

Module 7: Exam Preparation

- Review key topics by module
 - Practice questions and exam strategies
 - Real-world use cases
 - Final mock test
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Target Audience

- Students and beginners exploring cloud computing
 - Business decision-makers and non-technical users
 - Professionals preparing for the **AZ-900 certification exam**
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Prerequisites

- No prior technical experience required
- Basic computer and internet usage knowledge helpful