APPLIED TECHNOLOGY ACADEMY

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Microsoft Azure Fundamentals Training

Microsoft Authorized Training · Applied Technology Academy

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.

LEVEL	DURATION	EXPERIENCE	AVERAGE SALARY	LABS
Beginner	**1 Day**	**1 year: IT Administration**	**$101,526**	**Yes**

Course Overview

In this course, you will:

- Describe cloud concepts
- Describe Azure architecture and services
- Describe Azure management and governance
- Learn about the basics of cloud computing and Azure
- Learn about Azure architecture and core services
- Learn about some of the core management and governance tools in Azure

Course Outline

- **Module 1: Cloud Concepts**
  - In this module, you will learn about cloud services, the types of cloud models, and the types of cloud services.
  - Lessons
  - Why Cloud Services
  - Types of Cloud models
  - Types of Cloud services
  - After completing this module, students will be able to:
  - Define cloud computing and its key advantages
  - Explain public, private, and hybrid cloud models
  - Explain IaaS, PaaS, and SaaS cloud services
- **Module 2: Core Azure Services**
  - In this module, you learn about Azure core cloud architectural components, Azure services and products, Azure solutions, and Azure management tools.
  - Lessons
  - Core Azure Architectural components

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  - Core Azure Services and Products
  - Azure Solutions
  - Azure management tools
  - Lab:
  - Walkthrough: Create a virtual machine
  - Walkthrough: Deploy Azure container instances
  - Walkthrough: Create a virtual network
  - Walkthrough: Create blob storage
  - Walkthrough: Create a SQL database
  - Walkthrough: Implement an Azure IoT Hub
  - Walkthrough: Implement Azure Functions
  - Walkthrough: Create a web app
  - Walkthrough: Create a VM with a Template
  - Walkthrough: Create a VM with PowerShell
  - Walkthrough: Create a VM with CLI
  - After completing this module, students will be able to:
  - Identify core Azure architectural components, such as regions, geographies, and resource groups
  - Identify usage cases for Azure core services and products, such as virtual machines and storage
  - Identify usage cases for Azure solutions, such as the Internet of Things and Machine Learning
  - Identify what Azure management tools are available such as Azure PowerShell and the CLI
- **Module 3: Security, Privacy, Compliance, and Trust**
  - In this module, you learn about Azure security, identity, governance, monitoring, reporting, and standards.
  - Lessons
  - Secure network connectivity
  - Core Azure identity services
  - Security tools and features
  - Azure governance methodologies
  - Monitoring and reporting
  - Privacy, compliance, and data protection standards
  - Lab:
  - Walkthrough: Secure network traffic
  - Walkthrough: Implement Azure key vault
  - Walkthrough: Create an Azure Policy
  - Walkthrough: Manage access with RBAC
  - Walkthrough: Manage resource locks
  - Walkthrough: Implement resource tagging
  - Walkthrough: Exploring the Trust Center

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  - After completing this module, students will be able to:
  - Describe virtual network security connectivity options such as Network Security Groups
  - Describe Azure identity authentication and authorization options
  - Describe usage cases for the Security Center, Key vault, threat, and information protection options
  - Describe Azure policies and role-based access control
  - Describe usage cases for Azure Monitor and Azure Service Health
  - Describe privacy, compliance, and data protection standards
- **Module 4: Azure Pricing, Service Level Agreements (SLAs), and Lifecycle**
  - In this module, you will learn about Azure subscriptions, planning and managing costs, support options, SLAs, and service lifecycles.
  - Lessons
  - Azure subscriptions
  - Planning and managing costs
  - Azure Service Level Agreements (SLAs)
  - Service lifecycle in Azure
  - Lab:
  - Walkthrough: Use the Azure Pricing Calculator
  - Walkthrough: Use the Azure TCO Calculator
  - Walkthrough: Calculate composite SLAs
  - Walkthrough: Access Azure Preview features
  - After completing this module, students will be able to:
  - Use an Azure subscription
  - Plan and manage costs
  - Describe Azure SLAs
  - Explain Azure service lifecycles

Intended Audience

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.

Prerequisites

There are no prerequisites for taking this course. Familiarity with cloud computing is helpful but isn't necessary.

Follow-On Courses

- Develop AI Cloud Solutions on Azure (AI-200)
- Designing Microsoft Azure Infrastructure Solutions (AZ-305)
- Microsoft Azure AI Fundamentals (AI-900)
- Microsoft Azure Data Fundamentals (DP-900)

Ready to enroll? Call 800.674.3550 or email Info@AppliedTechAc.com — private team cohorts, GSA MAS purchasing, military credentialing funding, VA GI Bill and VR&E and student financing available.