

AZ-900T00: Microsoft Azure Fundamentals

COURSE OVERVIEW:

This two-day course will provide foundational level knowledge on cloud concepts; core Azure services; security, privacy, compliance, and trust; and Azure pricing and support. Note: This course provides an Azure pass and time for students to participate in hands-on labs. If you do not need hands-on experience, consider the AZ-900T01: Microsoft Azure Fundamentals (1 day) course. The content for both courses align to the AZ-900 exam objective domain.

WHO WILL BENEFIT FROM THIS COURSE?

This course is suitable for IT personnel who are just beginning to work with Azure. This audience wants to learn about our offerings and get hands-on experience with the product. This course primarily uses the Azure portal to create services and does not require scripting skills. Students in this course will gain confidence to take other role-based courses and certifications, such as Azure Administrator. This course provides an Azure pass and optional lab environment. This course combines lecture, demonstrations, and hands-on labs. This course will also help prepare someone for the AZ-900 exam.

PREREQUISITES:

There are no prerequisites for taking this course. However, the more technical knowledge a student has the more they will understand about the cloud.

COURSE OBJECTIVES:

After completing this course, students will be able to:

- Describe cloud computing, Azure, and Azure subscriptions.
- Use Azure PowerShell, the Azure Software Development Kit (SDK), and the Azure command-line interface (CLI) to manage Azure subscriptions.
- Create and configure virtual machines in Azure and manage their disks.
- Create, configure, and monitor web apps in Azure and deploy Azure platform as a service (PaaS) cloud services.
- Create and configure Azure virtual networks.
- Create, manage, and configure cloud storage in Azure.
- Use Azure SQL Database to create, configure, and manage SQL databases.
- Create and manage Azure AD.

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
- Core Azure Services and Products
- Azure Solutions
- Azure management tools
- Lab: Walkthrough: Create a virtual machine
- Lab: Walkthrough: Deploy Azure container instances
- Lab: Walkthrough: Create a virtual network
- Lab: Walkthrough: Create blob storage
- Lab: Walkthrough: Create a SQL database
- Lab: Walkthrough: Implement an Azure IoT Hub
- Lab: Walkthrough: Implement Azure Functions
- Lab: Walkthrough: Create a web app
- Lab: Walkthrough: Create a VM with a Template
- Lab: Walkthrough: Create a VM with PowerShell
- Lab: 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
- Lab: Walkthrough: Implement Azure key vault
- Lab: Walkthrough: Create an Azure Policy
- Lab: Walkthrough: Manage access with RBAC
- Lab: Walkthrough: Manage resource locks
- Lab: Walkthrough: Implement resource tagging
- Lab: Walkthrough: Exploring the Trust Center

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 and Support

- 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 support options
- Azure Service Level Agreements (SLAs)
- Service lifecycle in Azure
- Lab: Walkthrough: Use the Azure Pricing Calculator
- Lab: Walkthrough: Use the Azure TCO Calculator
- Lab: Walkthrough: Open a Support request
- Lab: Walkthrough: Calculate composite SLAs
- Lab: Walkthrough: Access Azure Preview features

After completing this module, students will be able to:

- Use an Azure subscription.
- Plan and manage costs.
- Explain Azure support options.
- Describe Azure SLAs.
- Explain Azure service lifecycles.

SUNSET LEARNING INSTITUTE (SLI) DIFFERENTIATORS:

Sunset Learning Institute (SLI) has been an innovative leader in developing and delivering authorized technical training since 1996. Our goal is to help our customers optimize their cloud technology investments by providing convenient, high quality technical training that our customers can rely on. We empower students to master their desired technologies for their unique environments.

What sets SLI apart is not only our immense selection of trainings options, but our convenient and consistent delivery system. No matter how complex your environment is or where you are located, SLI is sure to have a training solution that you can count on!

Premiere World Class Instruction Team

- All SLI instructors have a four-year technical degree, instructor level certifications and field consulting work experience.

- Sunset Learning has won numerous Instructor Excellence and Instructor Quality Distinction awards since 2012

Enhanced Learning Experience

- The goal of our instructors during class is ensure students understand the material, guide them through our labs and encourage questions and interactive discussions.

Convenient and Reliable Training Experience

- You have the option to attend classes at any of our established training facilities or from the convenience of your home or office with the use of our HD-ILT network (High Definition Instructor Led Training)
- All Sunset Learning Institute classes are guaranteed to run – you can count on us to deliver the training you need when you need it!

Outstanding Customer Service

- Dedicated account manager to suggest the optimal learning path for you and your team
- Enthusiastic Student Services team available to answer any questions and ensure a quality training experience