

MS 10979B - MICROSOFT AZURE FUNDAMENTALS

COURSE OVERVIEW:

Get hands-on instruction and practice implementing Microsoft Azure in this two day Microsoft Official Course. You will be presented with Basic cloud computing concepts as well as specific Microsoft Azure features used in day to day administration of cloud resources. You will learn key Microsoft Azure concepts and basic implementation of Azure subscriptions, websites, virtual machines, storage, virtual networks, databases and Microsoft Azure Active Directory.

This course is intended for information technology (IT) professionals who have a limited knowledge of cloud technologies and want to learn more about Microsoft Azure. This course provides the underlying knowledge required by all IT professionals who will be using Microsoft Azure, regardless of whether they are an administrator, developer, or database administrator. While this course does not map to an exam, it does provide you with the prerequisite knowledge for taking 20532A: Developing Microsoft Azure Solutions & 20533A: Implementing Microsoft Azure Infrastructure Solutions.

WHO WILL BENEFIT FROM THIS COURSE?

This course is intended for information technology (IT) professionals who have a limited knowledge of cloud technologies and want to learn more about Microsoft Azure. This course provides the underlying knowledge required by all individuals who will be evaluating Microsoft Azure, regardless of whether they are an administrator, developer, or database administrator.

This course also provides the prerequisite knowledge for students wishing to attend course 20532A Microsoft Azure for Developers, or course 20533A Microsoft Azure for IT Professionals.

The audience will include:

- Individuals who want to evaluate deploying, configuring, and administering services and virtual machines using Microsoft Azure.
- Developers who want to evaluate creating Microsoft Azure solutions.
- Windows Server administrators who are looking to evaluate the migration of on-premises roles and services to the cloud.
- IT professionals who want to evaluate the use of Microsoft Azure to host web sites and mobile app back-end services.
- Database administrators who want to evaluate the use of Microsoft Azure to host Microsoft SQL Server databases.

Course Level: 300

PREREQUISITES:

To fully benefit from this course, students should have the following prerequisite skills and knowledge:

- A basic understanding of websites.
- A basic understanding of Active Directory concepts including: Domains, Users, Domain Controllers.
- A basic understanding of database concepts including tables and simple queries.

COURSE OBJECTIVES:

After completion of this course, students will be able to...

- Describe cloud computing, Microsoft Azure, and Azure subscriptions.
- Describe and create Microsoft Azure websites.
- Create and configure virtual machines in Microsoft Azure.
- Create a Microsoft Azure virtual network.
- Describe and configure Microsoft Azure storage.
- Describe and deploy databases in Microsoft Azure.
- Describe and configure Microsoft Azure Active Directory.

COURSE OUTLINE:**Module 1: Getting Started with Microsoft Azure**

This module describes the features of Microsoft Azure and the services it provides. The module also explains how to manage Microsoft Azure by using the Azure portal, Visual Studio, and SQL Server Management Studio. In addition, the module describes how to manage subscriptions and billing.

Lessons

- What Is Cloud Computing?
- What Is Azure?
- Managing Azure
- Subscription Management and Billing

Lab: Using the Microsoft Azure Portal

After completing this module, students will be able to:

- Describe cloud computing.
- Describe Microsoft Azure and the various Azure services.
- Manage Azure services from the Azure portal.
- Manage an Azure subscription and billing.

Module 2: Websites and Cloud Services

This module explains the procedures for creating and configuring websites and cloud services. The module also describes how to deploy and monitor websites.

Lessons

- Create and Configure Websites
- Deploy and Monitor Websites
- Create and Deploy Cloud Services

Lab: Websites and Cloud Services

After completing this module, students will be able to:

- Create and configure websites using the Azure portal.
- Deploy and monitor websites on Azure.
- Create and deploy cloud services on Azure.

Module 3: Virtual Machines

This module describes how to create and configure virtual machines and disks.

Lessons

- Create and Configure Virtual Machines
- Configure Disks

Lab: Create a Virtual Machine in Microsoft Azure

After completing this module, students will be able to:

- Create and configure virtual machines in Microsoft Azure.
- Configure disks.

Module 4: Virtual Networks

This module provides an overview of virtual networks and also describes the procedure to create one. The module then describes a point-to-site VPN and explains how to set up one.

Lessons

- Getting Started with Virtual Networks
- Creating a Virtual Network
- Implementing Point-to-Site Networks

Lab: Create a Virtual Network

After completing this module, students will be able to:

- Describe the purpose and functionality of Azure virtual networks.
- Create Azure virtual networks.
- Implement point-to-site networks.

Module 5: Cloud Storage

This module describes cloud storage features such as azure storage accounts, BLOBs, tables, and queues. The module also describes how to create and manage storage.

Lessons

- Understand Cloud Storage
- Create and Manage Storage

Lab: Configure Azure Storage**After completing this module, students will be able to:**

- Describe the features and benefits of cloud storage.
- Create and manage storage in Azure.

Module 6: Microsoft Azure Databases

This module provides an overview of the relational database deployment options. The module also describes how to create and connect SQL databases.

Lessons

- Understand Relational Database Deployment Options
- Create and Connect to SQL Databases

Lab: Create an SQL Database**After completing this module, students will be able to:**

- Describe options for relational database deployment in Microsoft Azure.
- Create and connect to SQL databases in Azure.

Module 7: Azure Active Directory

This module describes how to manage Active Directory objects and how they can be used for identity and access management. The module also describes how to configure authentication by using multi-factor authentication and single sign-on.

Lessons

- Manage Azure AD Objects
- Manage Authentication

Lab: Create Users in Azure Active Directory**After completing this module, students will be able to:**

- Manage Microsoft Azure Active Directory (Azure AD) objects.

- Manage authentication.

Module 8: Microsoft Azure Management Tools

This module provides an overview of the tools that you can use to manage Microsoft Azure such as Azure PowerShell, Visual Studio, and Xplat CLI.

Lessons

- Azure PowerShell
- The Azure SDK and the Azure Cross-Platform Command-Line Interface

Lab: Using Microsoft Azure Management Tools**After completing this module, students will be able to:**

- Describe and use Windows Azure PowerShell to manage your Azure subscription.
- Describe and use Microsoft Visual Studio and the Azure cross-platform command-line interface to manage your Azure subscription.

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