



**Enterprise Computing Solutions - Education Services**

## **TRAINING OFFERING**

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# 10979: Microsoft Azure Fundamentals

CODE:	LENGTH:	PRICE:
MS-10979	16 Hours (2 days)	\$1,095.00

## Description

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.

## Objectives

After completing 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.

## Audience

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.

## Prerequisites

Before attending this course, students must have:

- 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.

## Programme

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

Add a Co-Administrator

View Billing Data

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

Create a WordPress Website

Create a Cloud Service

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

Create a Virtual Machine from the Gallery

Verify the functionality of the Virtual Machine

Attach a Data Disk

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

Creating a Virtual Network

Creating Virtual Machines from the Gallery

Add Point-to-Site Connectivity

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

Create an Azure Storage Account

Create and Manage Blobs

Upload Files

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

Create a New SQL Database in Azure and Configure SQL Server Firewall Rules

Add Data to an SQL Database in Azure by Using SQL Server Management Studio

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

Create an Azure AD Directory

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

Use the Azure PowerShell Modules

Use the Azure Cross-Platform Command-Line Interface

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.

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## Session Dates

On request. Please [Contact Us](#)

## Additional Information

[This training is also available as onsite training. Please contact us to find out more.](#)