AZ-204: Developing solutions for Microsoft Azure

Course objectives

Module 1: Creating Azure App Service Web Apps

Module 2: Implement Azure functions

Module 3: Develop solutions that use blob storage

Module 4: Develop solutions that use Cosmos DB storage

Module 5: Implement IaaS solutions

Module 6: Implement user authentication and authorization

Module 7: Implement secure cloud solutions

Module 8: Implement API Management

Module 9: Develop App Service Logic Apps

Module 10: Develop event-based solutions

Module 11: Develop message-based solutions

Module 12: Monitor and optimize Azure solutions

Module 13: Integrate caching and content delivery within solutions

Audience

Students in this course are interested in Azure development or in passing the Microsoft Azure Developer Associate certification exam.

Prerequisite

Students should have 1-2 years professional development experience and experience with Microsoft Azure. They must be able to program in an Azure Supported Language.

Customised IT and Soft Skills training to suit your needs

Duration

This is **a five-day AZ-204: Developing solutions for Microsoft Azure** Course. The course starts at **09:30** and runs until **16:30**.

Alternate timings can be arranged upon request. The course can be held on a **date that suits you.**

Location

Our **AZ-204: Developing solutions for Microsoft Azure** course can be run at **our training venue** near **Liverpool Street (London)** or any preferred location in the **UK or Europe**. The training can also be **delivered Online Remotely using online training platforms**.

Customised IT and Soft Skills training to suit your needs

AZ-204: Developing solutions for Microsoft Azure Course Outline

Module 1: Creating Azure App Service Web Apps

Azure App Service core concepts

Creating an Azure App Service Web App

Configuring and Monitoring App Service apps

Scaling App Service apps

Azure App Service staging environments

Module 2: Implement Azure functions

Azure Functions overview

Developing Azure Functions

Implement Durable Functions

Module 3: Develop solutions that use blob storage

Azure Blob storage core concepts

Managing the Azure Blob storage lifecycle

Working with Azure Blob storage

Module 4: Develop solutions that use Cosmos DB storage

Azure Cosmos DB overview

Azure Cosmos DB data structure

Working with Azure Cosmos DB resources and data

Module 5: Implement IaaS solutions

Provisioning VMs in Azure

Create and deploy ARM templates

Create container images for solutions

Publish a container image to Azure Container Registry

Create and run container images in Azure Container Instances

Module 6: Implement user authentication and authorization

Microsoft Identity Platform v2.0

Authentication using the Microsoft Authentication Library

Using Microsoft Graph

Authorizing data operations in Azure Storage

Module 7: Implement secure cloud solutions

Manage keys, secrets, and certificates by using the KeyVault API

Implement Managed Identities for Azure resources

Secure app configuration data by using Azure App Configuration

Module 8: Implement API Management

API Management overview

Defining policies for APIs

Securing your APIs

Module 9: Develop App Service Logic Apps

Azure Logic Apps overview

Creating custom connectors for Logic Apps

Customised IT and Soft Skills training to suit your needs

Module 10: Develop event-based solutions

Implement solutions that use Azure Event Grid

Implement solutions that use Azure Event Hubs

Implement solutions that use Azure Notification Hubs

Module 11: Develop message-based solutions

Implement solutions that use Azure Service Bus

Implement solutions that use Azure Queue Storage queues

Module 12: Monitor and optimize Azure solutions

Overview of monitoring in Azure

Instrument an app for monitoring

Analyzing and troubleshooting apps

Implement code that handles transient faults

Module 13: Integrate caching and content delivery within solutions

Develop for Azure Cache for Redis

Develop for storage on CDNs

Learning & Performance Institute
Accredited Learning Provider
Gold Standard

psalltraining.com │ info@psalltraining.com │020 3696 2796