Course duration

5 days

Course Benefits

- Learn how to create end-to-end solutions in Microsoft Azure.
- Implement Azure compute solutions.
- Create Azure Functions.
- Implement and manage web apps.
- Develop solutions utilizing Azure storage.
- Implement authentication and authorization.
- Secure their solutions by using KeyVault and Managed Identities. Connect to and consume Azure services and third-party services, and include event- and messagebased models in their solutions.
- Learn about monitoring, troubleshooting, and optimizing Azure solutions.

Available Delivery Methods

Public Class

Public expert-led online training from the convenience of your home, office or anywhere with an internet connection. Guaranteed to run .

Private Class

Private classes are delivered for groups at your offices or a location of your choice.

Microsoft Certified Partner

Webucator is a Microsoft Certified Partner for Learning Solutions (CPLS). This class uses official Microsoft courseware and will be delivered by a Microsoft Certified Trainer (MCT).

Course Outline

- 1. Creating Azure App Service Web Apps
 - 1. Azure App Service core concepts
 - 2. Creating an Azure App Service Web App
 - 3. Configuring and Monitoring App Service apps
 - 4. Scaling App Service apps

- 5. Azure App Service staging environments
- 2. Implement Azure functions
 - 1. Azure Functions overview
 - 2. Developing Azure Functions
 - 3. Implement Durable Functions
- 3. Develop solutions that use blob storage
 - 1. Azure Blob storage core concepts
 - 2. Managing the Azure Blob storage lifecycle
 - 3. Working with Azure Blob storage
- 4. Develop solutions that use Cosmos DB storage
 - 1. Azure Cosmos DB overview
 - 2. Azure Cosmos DB data structure
 - 3. Working with Azure Cosmos DB resources and data
- 5. Implement laaS solutions
 - 1. Provisioning VMs in Azure
 - 2. Create and deploy ARM templates
 - 3. Create container images for solutions
 - 4. Publish a container image to Azure Container Registry
 - 5. Create and run container images in Azure Container Instances
- 6. Implement user authentication and authorization
 - 1. Microsoft Identity Platform v2.0
 - 2. Authentication using the Microsoft Authentication Library
 - 3. Using Microsoft Graph
 - 4. Authorizing data operations in Azure Storage
- 7. Implement secure cloud solutions
 - 1. Manage keys, secrets, and certificates by using the KeyVault API
 - 2. Implement Managed Identities for Azure resources
 - 3. Secure app configuration data by using Azure App Configuration
- 8. Implement API Management
 - 1. API Management overview
 - 2. Defining policies for APIs
 - 3. Securing your APIs
- 9. Develop App Service Logic Apps
 - 1. Azure Logic Apps overview
 - 2. Creating custom connectors for Logic Apps
- 10. Develop event-based solutions
 - 1. Implement solutions that use Azure Event Grid
 - 2. Implement solutions that use Azure Event Hubs
 - 3. Implement solutions that use Azure Notification Hubs
- 11. Develop message-based solutions
 - 1. Implement solutions that use Azure Service Bus
 - 2. Implement solutions that use Azure Queue Storage queues
- 12. Monitor and optimize Azure solutions
 - 1. Overview of monitoring in Azure
 - 2. Instrument an app for monitoring
 - 3. Analyzing and troubleshooting apps
 - 4. Implement code that handles transient faults

- 13. Integrate caching and content delivery within solutions
 - 1. Develop for Azure Cache for Redis
 - 2. Develop for storage on CDNs

Class Materials

Each student will receive a comprehensive set of materials, including course notes and all the class examples.

Class Prerequisites

Experience in the following is required for this Azure class:

- 1-2 years' professional development experience and experience with Microsoft Azure.
- Ability to program in an Azure Supported Language.