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## Develop Solutions for Microsoft Azure (AZ-204)

Duration: 5 Days    Course Code: M-AZ204

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### Overview:

**This course teaches developers how to create end-to-end solutions in Microsoft Azure.**

Students will learn how to implement Azure compute solutions, create Azure Functions, implement and manage web apps, develop solutions utilizing Azure storage, implement authentication and authorization, and secure their solutions by using KeyVault and Managed Identities. Students will also learn how to connect to and consume Azure services and third-party services, and include event- and message-based models in their solutions. The course also covers monitoring, troubleshooting, and optimizing Azure solutions.

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### Target Audience:

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

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### Objectives:

- Students will learn to,
  - Implement Azure App Service web apps
  - Implement Azure Functions
  - Develop solutions that use Blob storage
  - Develop solutions that use Azure Cosmos DB
  - Implement containerized solutions
  - Implement user authentication and authorization
  - Implement secure Azure solutions
  - Implement API Management
  - Develop event-based solutions
  - Develop message-based solutions
  - Troubleshoot solutions by using Application Insights
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### Testing and Certification

- [Microsoft Certified: Azure Developer Associate](#)
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## Content:

### Module 1 Implement Azure App Service web apps

- Explore Azure App Service
- Configure web app settings
- Scale apps in Azure App Service
- Explore Azure App Service deployment slots

### Module 2: Implement Azure Functions

- Explore Azure Functions
- Develop Azure Functions

### Module 3: Develop solutions that use Blob storage

- Explore Azure Blob storage
- Manage the Azure Blob storage lifecycle
- Work with Azure Blob storage

### Module 4:Develop solutions that use Azure Cosmos DB

- Explore Azure Cosmos DB
- Work with Azure Cosmos DB

### Module 5:Implement containerized solutions

- Manage container images in Azure Container Registry
- Run container images in Azure Container Instances
- Implement Azure Container Apps

### Module 6:Implement user authentication and authorization

- Explore the Microsoft identity platform
- Implement authentication by using the Microsoft Authentication Library
- Implement shared access signatures
- Explore Microsoft Graph

### Module 7: Implement secure Azure solutions

- Implement Azure Key Vault
- Implement managed identities
- Implement Azure App Configuration

### Module 8: Implement API Management

- Explore API Management

### Module 9: Develop event-based solutions

- Explore Azure Event Grid
- Explore Azure Event Hubs

### Module 10: Develop message-based solutions

- Discover Azure message queues

### Module 11 Troubleshoot solutions by using Application Insights

- Monitor app performance

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## Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

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