



# Azure Mastery Course

## About the Program

Welcome to the Azure Mastery Course, your gateway to unlocking the boundless potential of Microsoft Azure, one of the world's leading cloud platforms. Our comprehensive program is carefully structured into three dynamic sections Fundamental, Developer, and Administrator, each meticulously designed to empower you with specialized skills and knowledge, enabling you to thrive in the ever-evolving world of cloud computing.

## Other Details

<b>Timings</b> Monday - Thursday (3 hours) Saturday (5 hours)	<b>Job Assist</b> Resume assistance, career mentoring and job portal access	<b>Certified Trainers</b> Trainer with more than 25 years of experience in Cloud Computing	<b>Projects</b> 3 capstone projects
<b>Total Students</b> 25	<b>Mode</b> Online / Offline	<b>Duration</b> This part time program is for 2 months	<b>Deadline</b> Register before 30th September, 2023



# Capstone Project

Create a Video Subscription Application deployed on AWS Application Load Balancer with Auto Scaling, S3, Relational Database Service(RDS), VPC Components, Lambda, DynamoDB and CloudFront with Route 53

## Job Roles

- Cloud Architect
- AWS/Cloud Developer
- Cloud Engineer
- Software Engineer
- Data Engineer

## Fundamental

### Course Objective

This course will provide foundational level knowledge on cloud concepts; core Azure services; and Azure management and governance features and tools.

### Prerequisites

There are no prerequisites for taking this course. It is targeted at anyone that wants to learn more about Microsoft Azure.

### Skills Covered

- Describe Cloud Concepts
- Core Solutions & Management Tools on Azure
- Identity, Governance, Privacy & Compliance Features
- Core Azure Services
- General Security and Network Security Features
- Azure Cost Management & Service Level Agreements

## Curriculum

### Module 1: Describe Cloud Concepts

- Describe Cloud Computing
- Describe the benefits of using Cloud services
- Describe Cloud service types

### Module 2: Describe Azure Architectures and services

- Describe the core architectural components
- Describe azure compute and networking services
- Describe azure storage services
- Describe azure identity, access, and security

### Module 3: Describe Azure management and governance

- Describe Cost Management in Azure
- Describe features and tools in Azure for governance and compliance
- Describe feature and tools for managing and deploying Azure resources
- Describe monitoring tools in Azure



# Developer

## Course Objective

Microsoft Azure Developer Associate (AZ-204) course helps you to get a deep understanding of how to develop solutions using Azure Infrastructure and Platform Compute services. The course also focuses on all the considerations that are necessary while building a highly scalable and available solution on the cloud.

## Prerequisites

- Foundational knowledge on Application Development
- Fundamentals of Cloud Computing
- Basic understanding of virtualization, networking & databases
- Proficiency in using Visual Studio IDE, PowerShell, and Command-Line Interface
- Coding experience in C# (.NET Framework)

## Skills Covered

- Select an appropriate Compute and Storage solution
- Develop solutions that use Storage Tables/Cosmos DB/ Relational Database/Blob Storage
- Develop for Caching and Content Delivery solutions
- Instrument solutions to support monitoring and logging
- Create Web Apps, Mobile Apps and API Apps using PaaS
- Create App Service Logic App and Azure Functions (Serverless Compute)
- Create solutions that use the Azure Kubernetes Service
- Develop Event-based and Message-based solutions
- Implement Authentication, Access control and Secure data solutions

## Curriculum

**Module 1: Introduction to Azure IaaS Compute Solutions**

**Module 2: Implementing Azure Batch Service and Disk Encryption**

**Module 3: Designing and Developing Applications That Use Containers**

**Module 4: Implementing Azure App Service Web Apps & Mobile Apps**

**Module 5: Implementing Azure App Service API Apps & Azure Functions**

**Module 6: Developing Solutions That Use Azure Table Storage and Cosmos DB**

**Module 7: Developing Solutions That Use Relational Database and Azure Blob Storage**

**Module 8: Implementing Authentication and Access Control In Azure**

**Module 9: Implementing Secure Data Solutions and Integrating Caching and CDN**

**Module 10: Instrument Monitoring, Logging and Scalability of Apps and Services**

**Module 11: Connecting to and Consuming Azure and Third-party Services**

**Module 12: Developing Event-based and Message-based Solutions in Azure**



# Administrator

## Course Objective

Microsoft Administrator: AZ-104 training is designed to help you prepare for the new Microsoft Certified: Azure Administrator Exam. You will learn to configure and manage storage, secure and monitor the cloud infrastructure. You will be able to effectively set up, deploy and scale Azure virtual me through robust implementations, implement advanced virtual networking and secure identities.

## Prerequisites

- Work experience in IT Administration
- Fundamentals of Cloud Computing
- Basic understanding of Virtualization, Networking & Databases
- Proficiency in using PowerShell and Command-Line Interface

## Skills Covered

- Manage Azure identities and governance
- Implement and manage storage
- Deploy and manage Azure compute resources
- Configure and manage virtual networking
- Monitor and maintain Azure resources

## Curriculum

**Module 1: Managing Azure Subscriptions and Resource Groups**

**Module 2: Azure Virtual Networks and Network Security**

**Module 3: Salesforce Overview of Azure Virtual Machines**

**Module 4: Overview of Azure Storage Services**

**Module 5: Secure and Manage Azure Storage**

**Module 6: Configure Virtual Machines for High Availability**

**Module 7: Network Traffic Distribution and Connectivity**

**Module 8: Integrate On-premises Network with Azure Virtual Network**

**Module 9: Azure Inter-site VPN Connectivity Methods**

**Module 10: Monitoring and Access Management for Cloud Resources**

**Module 11: Manage Azure Active Directory (AD)**

**Module 12: Implementing and Managing Hybrid Identities**

## Offline Location

Susan J. Wallace Community Centre  
G8M7+3JP, Nansen Ave, Freeport, Bahamas