Introduction to Azure & Power Platform

A comprehensive 5-day training program covering Azure fundamentals, Azure Logic Apps, and Power Apps — from cloud computing concepts to hands-on enterprise application development.

5-DAY TRAINING PROGRAM

TABLE OF CONTENTS

Day 1 — Azure Fundamentals

Build a solid foundation in cloud computing and core Azure concepts across four essential modules.

1

Module 1: Cloud Computing

- Describe cloud computing

2

Module 2: Benefits of Cloud

- Describe the benefits of using cloud services

3

Module 3: Cloud Service Types

- Describe cloud service types

4

Module 4: Azure Architecture

- Describe the core architectural components of Azure

Hands-On Lab

Day 2 — Azure Core Services

Explore Azure's compute, networking, storage, and identity services — the building blocks of every Azure solution.

Module 5: Compute & Networking

- Describe Azure compute and networking services

Module 6: Storage Services

- Describe Azure storage services

Module 7: Identity, Access & Security

- Describe Azure Identity, Access and Security

Module 8: Cost Management

- Describe cost management in Azure

Module 9: Governance & Compliance

- Describe features and tools in Azure for governance and compliance

Module 10: Managing & Deploying Resources

- Describe features and tools for managing and deploying Azure resources

Module 11: Monitoring Tools

- Describe monitoring tools in Azure

Hands-On Lab

Day 3 — Azure Logic Apps

1. Introduction to Azure Logic Apps

- What are Logic Apps? Logic Apps vs Power Automate
- Consumption vs Standard plan
- Serverless integration concepts

2. Core Components and Concepts

- Triggers, actions, connectors, workflow designer
- Variables, control actions, conditions and loops

3. Creating Your First Logic App

- Creating workflows from Azure Portal
- Using templates, scheduled workflows
- Email/notification workflows, HTTP requests

4. Connectors and Integrations

- Microsoft connectors: Outlook, SharePoint, Teams, SQL Server, OneDrive
- Enterprise connectors, custom connectors
- API integrations, on-premises data gateway

5. Working with JSON and Data Transformation

- Parse JSON action, handling dynamic content
- Compose action, Select and Filter Array
- Data mapping basics, Liquid templates

6. Control Flow and Error Handling

- Scopes, Configure Run After, retry policies
- Exception handling patterns
- Parallel execution, timeout management

7. Integration Patterns

- Event-driven workflows, scheduled automation
- Approval workflows, file processing workflows
- API orchestration, queue/message-based integration

8. Logic Apps with Other Azure Services

- Integration with Azure Functions & Service Bus
- Storage accounts, Event Grid/Event Hub
- Calling REST APIs

9. Monitoring and Troubleshooting

- Run history, diagnostics and logs
- Tracking failures, Azure Monitor
- Basic debugging techniques

10. Security and Governance

- Authentication methods, managed identities
- Secure inputs/outputs
- Role-based access control, API security basics

Hands-On Lab

Day 4 — Power Apps: Dataverse & Model-Driven Apps

Master the Power Platform foundations — from Dataverse architecture to building fully functional model-driven business applications.

Part 1: Dataverse Foundations

1. Introduction to Power Platform

- Overview of Power Platform & Power Apps ecosystem
- Licensing overview, business application scenarios
- Canvas Apps vs Model-Driven Apps

2. Introduction to Microsoft Dataverse

- What is Dataverse? Architecture overview
- Tables, columns, data types, choice columns
- Relationships, primary columns

3. Working with Dataverse

- Creating tables and columns
- Managing relationships, importing data
- Views, forms, security overview

4. Business Logic in Dataverse

- Business rules, calculated & rollup columns
- Duplicate detection, auditing basics

5. Solutions and Environment Management

- Solutions overview, managed vs unmanaged
- Publishers, environment concepts, basic ALM

Hands-On Labs

Part 2: Model-Driven Apps

1. Introduction to Model-Driven Apps

- Architecture, concepts, when to use
- App components overview

2. Building Model-Driven Apps

- App designer, sitemap configuration
- Forms, views, dashboards and charts

3. Business Process Automation

- Business process flows & business rules
- Command bar, quick create forms, notifications

4. Security in Model-Driven Apps

- Security roles, teams and business units
- Row-level security, sharing records

5. Integration and Automation

- Integrating with Power Automate
- Approval scenarios, email notifications

Hands-On Lab

Day 5 — Power Apps: Canvas Apps

Complete the training journey by building responsive, data-driven Canvas Apps with advanced features, integrations, and governance best practices.

1. Introduction to Canvas Apps

- Canvas app architecture
- Responsive design concepts
- Power Fx basics
- Controls and properties

2. Building Canvas Apps

- Creating apps from blank
- Screens and navigation
- Galleries and forms
- Variables, collections, containers

3. Working with Data

- Connecting to Dataverse
- CRUD operations
- Filter, Search, Sort
- Patch and Lookup functions

4. UX and Advanced Features

- Responsive UI techniques
- Components, error handling
- Notifications, media controls

5. Integration and Advanced Scenarios

- Calling Power Automate flows
- Custom connectors overview
- Integration with Teams & SharePoint
- AI Builder and Copilot intro

6. Performance and Governance

- Delegation concepts
- Performance optimization
- App sharing, governance basics
- DLP overview

Hands-On Labs