

Power Apps Basic to Advanced

Duration: 40 hours

Course description

This course will teach how to build apps with low-code techniques to simplify, automate, and transform business tasks and processes using Microsoft Power Platform.

This course will allow you to practice your App Maker skills by creating an end-to-end solution to solve a problem for a fictitious company. The solution will include a Microsoft Dataverse database, Power Apps canvas app, and Power Automate flows.

Learning objectives

After completing this course, students will be able to:

- Design apps and automate workflows
- Create apps and automate workflows
- Analyse and visualize data in context of an app or automated workflow
- Implement and manage apps and automated workflows

Audience prerequisites

- Basic data modelling, user experience design, requirements analysis, and process analysis skills.
 - A personal growth mindset and are comfortable using technology to solve business problems.
- An understanding of the operational need and have a vision of the desired outcome. They approach problems with phased and iterative strategies

Course Content

Module 1: Getting started with Microsoft Power Platform

- Components of Power Platform
- Data Connectors
- Manage environments and Solutions

Module 2: Microsoft Dataverse

- What is a relational database?
- Introduction to Microsoft Dataverse
- Create and manage tables in Microsoft Dataverse
- Create and manage columns in Microsoft Dataverse
- Create relationships between tables in Dataverse
- Create and define calculated and rollup columns in Dataverse

- Load/export data in Microsoft Dataverse
- Manage Power Platform and Dataverse Settings
- Manage security in Microsoft Dataverse
- Audit and Logs

Module 3: Model-driven apps in Power Apps

- Introduction to model-driven apps
- Create model-driven apps
- Design forms
- Design views
- Design charts
- Design dashboards
- Use specialized components in a model-driven form
- Manage settings and security model-driven app
- CRUD operations in Model Driven apps
- Web resources

Module 4: Canvas apps in Power Apps

- Introduction to canvas apps
- Create a canvas app in Power Apps
- Using and describing controls in a canvas app in Power Apps
- Create formulas to change properties of a canvas app
- Navigation in a canvas app
- Managing apps in Power Apps
- Connect to multiple external Connectors in canvas apps
- Connect with Active Directory in Power Apps
- CRUD operations in Canvas apps
- Common issues and resolutions for Power Apps

Module 5: Automate your processes with Power Automate

- Introduction to automation in Dataverse
- Overview of Power Automate
- Creating cloud flows with Power Automate
- Triggers and Actions in Power Automate cloud flows
- Creating Approval Flows
- Introduction to expressions in Power Automate

- Test and troubleshoot your flows
- Error handling
- Manage connections

Module 6: Get started with visualising data with Power BI

- Overview of Power BI
- Explore what Power BI can do for you.
- Data Lifecycle in Power BI
- Tools of Power BI
- Prepare Data with Power BI
- Define your Data model
- Visualise data in Power BI
- Creating Reports in Power BI service
- Protect, publish, and share data in Power BI
- Create dashboards in Power BI
- Manage workspaces and datasets in Power BI

Advance Components

- Application Lifecycle Management
- Interoperability with other services
- Overview of pipelines in Power Platform
- Integrate Power Apps with Power Automate and Power BI
- Introduction to Gateways
- Plugins