Faysal Aziz

Unlocking Business Potential with Power Apps and Power BI

Build Powerful Apps and Visualize Data with Ease - 2 days

FA-0451 · 2 days

Data & Analytics · Automation, RPA & Power Platform

Introduction

In today's rapidly evolving business environment, organizations need agile solutions to streamline processes and make data-driven decisions. Microsoft Power Apps and Power BI offer a powerful, integrated platform to develop custom applications and visualize business data.

This beginner-friendly, two-day course focuses on empowering participants to build simple, effective apps using Power Apps and create impactful data visualizations with Power BI. Designed with hands-on learning at its core, this course enables participants to create real-world solutions they can implement immediately in their workplace.

Our instructor brings over 30 years of industry experience, ensuring the course content is practical, relevant, and aligned with the demands of modern business environments.

Learning outcomes

By the end of this course, participants will be able to:

- Understand the fundamental concepts of Microsoft Power Apps and Power BI.
- Build a basic, functional app using Power Apps to automate a simple business process.
- Create and customize data entry forms and connect them to a data source.
- Implement simple business logic and workflows in Power Apps.
- Use Power BI to create basic data visualizations and dashboards from app-generated data.

- Share apps and reports securely within an organization.

Prerequisites

- Basic knowledge of Microsoft Excel and familiarity with spreadsheets.
- No prior coding or app development experience required.
- A Microsoft Office 365 account with Power Apps and Power BI access.

Training outline

1. Introduction to Power Platform

Overview of Microsoft Power Platform

1. Power Apps: What it is and what it can do.
2. Power BI: Basic concepts and integration with Power Apps.
3. Power Automate: Brief introduction to automation.

2. Real-world use cases of Power Apps and Power BI in business scenarios.

2. Getting Started with Power Apps

Understanding the Power Apps Interface

1. Navigating the Power Apps studio.
2. Key components: Screens, controls, data sources.

Creating Your First Power App

1. Choosing a template or starting from a blank canvas.
2. Connecting to data sources (SharePoint, Excel, etc.).
3. Adding and configuring controls: Labels, text input, buttons.

Building a Simple Data Entry Form

1. Creating a form for capturing data.
2. Configuring data cards and layout.
3. Setting default values and validation.

Customizing the App

1. Using the formula bar for basic logic (If statements, navigation).
2. Modifying themes and styling for a professional look.
3. Adding media and images to enhance user experience.

Introduction to Collections and Variables

1. Understanding and creating collections.
2. Using variables to store and manipulate data.
3. Implementing basic data validation and error handling.

3. Implementing Business Logic

Creating Simple Workflows

1. Introduction to Power Automate for automating tasks.
2. Triggering flows from within Power Apps.

Adding Conditional Logic

1. Using If, Switch, and other logical functions.
2. Creating dynamic interfaces based on user input.

Handling User Permissions and Security

1. Restricting access to certain features.
2. Sharing the app securely within the organization.

4. Finalizing and Publishing the App

Testing and Debugging

1. Common troubleshooting tips.
2. Testing app functionality and performance.

Publishing and Sharing the App

1. Configuring app settings and permissions.
2. Sharing the app with users and collecting feedback.

5. Introduction to Power BI for Data Visualization

Power BI Basics

1. Understanding the interface and core components.
2. Connecting to data sources: Integrating data from Power Apps.

Creating Simple Visualizations

1. Using basic chart types: Bar, line, pie charts.
2. Creating tables and matrices for detailed data views.
3. Filtering and slicing data for insights.

Building a Simple Dashboard

1. Combining multiple visualizations into a single dashboard.
2. Customizing visuals and setting up interactions.

Sharing and Publishing Reports

1. Publishing to Power BI Service.
2. Sharing dashboards with colleagues.

6. Integrating Power Apps and Power BI

Embedding Power BI Visuals in Power Apps

1. Adding Power BI tiles to Power Apps.
2. Using app data to create dynamic reports.

Using Power Apps as a Data Source for Power BI

1. Exporting app data to Power BI for further analysis.

7. Q&A and Wrap-Up

1. Reviewing key concepts and practical takeaways.
2. Addressing participant queries and discussing advanced learning paths.
3. Sharing additional resources for continued learning.

This course is designed to provide a comprehensive, hands-on experience that will enable participants to start building their own business solutions using Power Apps and Power BI.

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