

Mastering Power Apps with Analytics and Automation

Duration: 40 hours

Course Description:

This all-encompassing course is designed to equip participants with the skills to leverage the Microsoft Power Platform, enabling them to build applications, analyse data, and automate business processes effectively. The curriculum covers Canvas and Model-Driven Apps, empowering learners to create custom apps with dynamic interfaces and robust data modelling capabilities using Dataverse.

Participants will also gain expertise in Power Automate, learning to design and manage automated workflows for process optimization, task approvals, and system integrations. The course delves into Power BI, teaching how to create interactive dashboards, embed visualizations, and generate actionable insights from data.

Through a mix of practical labs and theoretical insights, learners will develop skills in creating end-to-end solutions, integrating Power Platform tools seamlessly to address complex business needs. By the end of this course, participants will be capable of designing intelligent, data-driven applications and automations to enhance productivity and decision-making.

Audience Pre-requisites:

- 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.

Course Content:

Module 1: Power Platform Overview

- Introduction to Power Platform
- Environments and Solutions
- Connectors

Module 2: Experiencing Data Model

- Create and manage tables in Microsoft Dataverse
- Create and manage columns
- Create relationships between tables
- Create and define calculated and rollup columns
- Define and create business rules
- Types of Power App

Module 3: Canvas Application

- Get started with Power Apps
- Customize a canvas app in Power Apps
- Navigation in a canvas app in Power Apps
- Power Fx formulas
- Performance monitoring and best practices
- Test your Power Apps application
- Integrating with cloud-based services like SQL server, azure etc.
- Connecting APIs to canvas apps using custom connectors

Module 4: Model Driven Application

- Design and create model-driven apps
- Configure forms
- Configure views
- Configure charts
- Configure dashboards
- Create business process flows

Module 5: Security and governance

- Get started with security roles in Dataverse
- Learn how to add users to an environment.
- Setting up role-based security
- Configuring environment permissions
- Integrate with Azure Active Directory (Azure AD) for authentication

Module 6: Analyse Data with Power BI

- Introduction to Power BI and Power BI Demo

- Data Modelling
- Visualizations
- Publishing and accessing Reports
- Building a Dashboard and Sharing

Module 7: Automating processes with Power Automate

- Introduction to Power Automate
- Types of Flows
- Flow logics: Conditionals and loops
- Getting started with desktop flows
- Use Outlook email to trigger desktop flows and pass inputs
- Integrate Power BI data alerts with Power Automate
- Using AI Builder services in power automate to process documents
- Deployment of power automate flows using solutions
- Understanding power automate licensing model
- Using azure services in power automate
- Sharing and import/export of flows