Microsoft Power Platform Developer (PL-400) Training

Duration: **5 Day**

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Overview

This course teaches participants how to build solutions with Microsoft Power Platform in order to meet business requirements and address more complex business challenges.

Throughout the programme, learners create Power Apps and Power Automate solutions while also exploring how the platform can be extended beyond its standard capabilities. Topics include custom user experiences, system integrations, data transformations, and customised process automation.

Participants also develop practical skills in designing, building, testing, securing, and troubleshooting Microsoft Power Platform solutions. The course covers developer-focused technologies such as Dataverse, model-driven apps, Canvas apps, Power Apps Component Framework, plug-ins, Azure integration, custom connectors, and Application Lifecycle Management.

Prerequisites

Participants should have development experience with the following technologies:

- Microsoft Power Platform services
- JavaScript
- JSON
- TypeScript
- C#
- HTML
- .NET
- RESTful Web APIs
- Microsoft Azure

In addition, participants should have strong practical knowledge of Microsoft Power Platform services, including a clear understanding of their capabilities, limitations, and constraints.

A basic understanding of Application Lifecycle Management (ALM) practices for Microsoft Power Platform is also recommended.

Multi-Factor Authentication (MFA)

Access to the Microsoft 365 or Dynamics 365 tenants used during the course may require Multi-Factor Authentication (MFA). Participants should therefore have access to a mobile device on which Microsoft Authenticator can be configured if required.

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Who Should Attend

This course is suitable for:

- Developers familiar with Power Apps, Power Automate, and Dataverse,
- Professionals with experience in JavaScript, C#, .NET, and Microsoft Azure,
- Developers who want to extend Microsoft Power Platform using custom development,
- Technical professionals working with Dataverse and Azure integrations,
- Developers creating custom connectors and custom components,
- Learners preparing to develop the skills covered by PL-400.

What You Will Learn

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

- Work effectively with Microsoft Dataverse,
- Create and enhance model-driven and Canvas Power Apps using advanced techniques,
- Configure business process automation,
- Understand Microsoft Power Platform development approaches,
- Extend the model-driven app user experience,
- Create code components using Power Apps Component Framework (PCF),
- Extend Microsoft Dataverse through custom development,
- Integrate Microsoft Dataverse with Microsoft Azure,
- Build custom connectors,
- Apply Application Lifecycle Management practices to Power Platform solutions.

Outline

Learning Path 1 – Work with Microsoft Dataverse

- Introduction to Microsoft Dataverse
- Managing Environments
- Managing customisations with Solutions
- Creating and managing Tables in Dataverse
- Creating and managing Columns
- Creating Relationships between Tables
- Creating Calculated and Rollup Columns
- Defining and creating Business Rules
- Managing Dataverse Security

Learning Path 2 – Create Model-Driven Apps

- Getting started with model-driven apps
- Configuring Forms
- Configuring Views
- Working with the Command Bar

Learning Path 3 – Create Canvas Apps

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- Getting started with Canvas apps
- Understanding low-code development from a developer perspective
- Customising a Canvas app
- Navigation in Canvas apps
- Power Fx Formulas
- Canvas Components
- Documenting and testing Power Apps

Learning Path 4 – Advanced Techniques in Canvas Apps

- Using imperative development techniques
- Performing custom updates
- Working with Dataverse Choice Columns in Formulas
- Working with relational data
- Understanding Data Source Limits and Delegation Limits
- Improving Canvas app performance

Learning Path 5 – Automate Business Processes with Power Automate

- Getting started with Power Automate
- Introduction to Expressions
- Using Dataverse Triggers and Actions
- Advanced Cloud Flow features

Learning Path 6 – Introduction to Power Platform Development

- Microsoft Power Platform Developer Resources
- Using Developer Tools to extend Power Platform
- Introduction to Power Platform extensibility
- Working with Dataverse APIs

Learning Path 7 – Extend the Model-Driven App User Experience

- Performing common actions with Client Script
- Best practices for Client Script
- Extending model-driven app behaviour on the client side

Learning Path 8 – Create Code Components with Power Apps Component Framework

- Introduction to Power Apps Component Framework
- Understanding PCF architecture and use cases
- Getting started with custom Code Components

Learning Path 9 – Extend Microsoft Dataverse

- Introduction to Dataverse for developers
- Creating Plug-ins
- Extending server-side business logic

Learning Path 10 – Integrate Dataverse and Azure

- Integrating with Microsoft Azure

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- Integrating with Dataverse
- Extending Power Platform solutions through Azure services

Learning Path 11 – Custom Connectors

- Getting started with Custom Connectors in Power Automate
- Creating custom integrations
- Connecting external services to Power Platform

Learning Path 12 – Application Lifecycle Management

- Solutions
- Application Lifecycle Management
- Managing solutions across development, testing, and production environments

Learning Path 13 – Create a Technical Design

Optional / if time permits

- Technical Architecture
- Planning Power Platform solution architecture
- Structuring key technical design decisions