Microsoft Power Platform Developer with Power Pages

Course Duration: 40 Hours (5 Days)

Overview

The PL-400T00: Microsoft Power Platform Developer course is designed to educate developers on the various aspects of the Microsoft Power Platform. Through this course, learners will gain a deep understanding of how to create applications across the Power Platform, including Power Apps, Power Automate, and Power Virtual Agents, with a focus on extending and customizing the capabilities to meet business needs. Participants will learn how to create Model-driven apps and Canvas apps, manage Microsoft Data verse environments, extend the Power Platform's user experience, and develop integrations with Data verse and Azure. The course also delves into advanced techniques for Canvas apps, automating business processes with Power Automate, and creating Custom connectors. By the end of the course, developers will have mastered the skills necessary to integrate with Power Platform and Common Data Service, create code components with the Power Apps Component Framework, and understand Application lifecycle management. This comprehensive training will enable learners to build robust, scalable solutions on the Power Platform, enhancing their ability to support and innovate within their organizations.

Audience Profile

The PL-400T00 course equips developers with the skills to build and implement Microsoft Power Platform solutions.

Job roles and audience for the PL-400T00 course:

- Power Apps Developers
- Dynamics 365 Developers
- Software Engineers with a focus on Microsoft technologies
- IT Professionals looking to expand their skillset in low-code application development
- Technical Consultants involved in Power Platform projects
- Application Developers transitioning to the Power Platform
- Solution Architects designing Power Platform solutions
- System Administrators with a development background
- Business Analysts with a technical orientation
- Existing Microsoft Stack Developers (e.g., SharePoint, Office 365)
- Data Analysts who want to leverage Power Platform for advanced analytics
- Technical Project Managers overseeing Power Platform initiatives
- DevOps Engineers responsible for application lifecycle management with Power Platform integration

- CRM Technical Consultants seeking to upskill in Power Platform development

Course Syllabus

Learning Path 1: Work with Microsoft Dataverse

- Introduction to Microsoft Data verse
- Manage environments
- Manage customizations with solutions
- 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
- Define and create business rules in Microsoft Dataverse
- Manage security in Microsoft Dataverse
- Lab 0: Validate lab environment
- Lab 1: Data modelling

Learning Path 2: Create model driven apps

- Get started with model-driven apps
- Configure forms
- Configure views
- Command bar
- Lab 2: Model-driven apps

Learning Path 3: Create canvas apps

- Get started with Power Apps
- Understanding Low Code as a
- Traditional Developer
- Customize a canvas app in Power Apps
- Navigation in a canvas app in
- Power Apps Power Fx formulas
- Canvas components
- Document and test your Power Apps application
- Lab 3: Canvas app

Learning Path 4: Advanced techniques in canvas apps

- Use imperative development techniques for canvas apps
- Perform custom updates in a canvas app
- Use Dataverse choice columns with formulas
- Work with relational data in a canvas app
- Work with data source limits (delegation limits) in a canvas app
- Performance in canvas apps
- Lab 4: Advanced canvas app techniques

Learning Path 5: Advanced techniques in canvas apps

- Get started with Power Automate
- Introduction to expressions in Power Automate
- Use Dataverse triggers and actions in Power
- Automate Advanced features of cloud flows
- Lab 5: Power Automate

Learning Path 6: Introduction to developing with Power Platform

- Introduction to Microsoft Power
- Platform developer resources
- Use developer tools to extend
- Microsoft Power Platform
- Introduction to extending
- Microsoft Power Platform
- Work with Dataverse API
- Lab 6: Power Platform tools
- Lab 7: Power Platform APIs

Learning Path 7: Extending the model-driven apps user experience

- Performing common actions with client script
- Best practices with client script
- Lab 8: Client scripting

Learning Path 8: Create code components with the Power Apps Component Framework

- Get started with Power Apps component framework
- Lab 9: Power Apps Component Framework (Optional)

Learning Path 9: Create Extending Microsoft Dataverse

- Introduction to Dataverse for developers Create plug-ins
- Lab 10: Dataverse Plug-ins

Learning Path 10: Integrate with Dataverse and Azure

- Integrate with Azure
- Integrate with Dataverse
- Lab 11: Azure Functions (Optional)
- Lab 12: Publishing events externally

Learning Path 11: Integrate with Dataverse and Azure

- Custom Connectors
- Lab 13: Custom connector (Optional)

Learning Path 12: Power Pages

- Core Components of Power Pages
- Explore Power Pages Templates
- Explore Power Pages design studio
- Explore Power Pages security features
- Introduction to Power Pages Administration