Microsoft Power Platform Developer

Duration: *5 Day(s)*

Course Overview

The Microsoft Power Platform helps organizations optimize their operations by simplifying, automating and transforming business tasks and processes. In this course, students will learn how to build Power Apps, Automate Flows and extend the platform to complete business requirements and solve complex business problems.

Review this course online at https://www.alta3.com/courses/PL-400T00

Objectives

- Design Power Apps and automate workflows using Power Automate.
- Implement advanced techniques for optimizing data and user interface within canvas apps.
- Understand and extend the functionality of the Power Platform using custom components and plugins.
- Integrate Power Platform with Azure for enhanced data and event management.

Who Should Attend

- Power Platform Developers
- Business Process Engineers
- App Developers
- Technical Consultants

Prerequisites

- Candidates must have taken courses PL-100 and PL-200 previously or have equivalent experience
- Candidates should have an extensive knowledge of Power Platform including building Canvas apps, Model-driven apps, and Flows with Power Automate
- Candidates must have taken courses PL-100 and PL-200 previously or have equivalent experience
- Candidates should have development experience that includes JavaScript, JSON, TypeScript, C#, HTML, .NET, Microsoft Azure, Microsoft 365, RESTful Web Services, ASP.NET, and Power BI
- Candidates should have extensive data modeling experience and understand capabilities, system integrations, data conversions, etc.

Course Outline

Module 1: Create a model-driven application in Power Apps

1. Introduction to model-driven apps and Common Data Service
2. Get started with model-driven apps in Power Apps
3. Create and manage entities in Common Data Service
4. Create and manage fields within an entity in Common Data Service
5. Working with option sets in Common Data Service
6. Create a relationship between entities in Common Data Service

7. Define and create business rules in Common Data Service

8. Create and define calculation or rollup fields in Common Data Service

9. Get started with security roles in Common Data Service

Module 2: Create a canvas app in Power Apps

10. Get started with Power Apps

11. Customize a canvas app in Power Apps

12. Manage apps in Power Apps

13. Navigation in a canvas app in Power Apps

14. How to build the UI in a canvas app in Power Apps

15. Use and understand Controls in a canvas app in Power Apps

16. Document and test your Power Apps application

Module 3: Master advance techniques and data options in canvas apps

17. Use imperative development techniques for canvas apps in Power Apps

18. Author an advanced formula that uses tables, records, and collections in a canvas app in Power Apps

19. Perform custom updates in a Power Apps canvas app

20. Complete testing and performance checks in a Power Apps canvas app

21. Work with relational data in a Power Apps canvas app

22. Work with data source limits (delegation limits) in a Power Apps canvas app

23. Connecting to other data in a Power Apps canvas app

24. Use custom connectors in a Power Apps canvas app

Module 4: Automate a business process using Power Automate

25. Get started with Power Automate

26. Build more complex flows with Power Automate

27. Introduction to business process flows in Power Automate

28. Create an immersive business process flow in Power Automate

29. Understand advanced business process flow concepts in Power Automate

30. Introduction to expressions in Power Automate

Module 5: Introduction to developing with Power Platform

31. Introduction to Power Platform developer resources

32. Use developer tools to extend the Power Platform

33. Introduction to extending the Microsoft Power Platform

Module 6: Extending the Power Platform Common Data Service

34. Introduction to Common Data Service for developers

35. Extend plug-ins

Module 7: Extending the Power Platform user experience Model Driven apps

36. Introduction to web resources

37. Performing common actions with client script

38. Automate business process flows with client script

Module 8: Create components with Power Apps Component Framework

39. Get started with Power Apps component framework

40. Build a Power Apps component

41. Use advanced features with Power Apps component framework

Module 9: Extend Power Apps portals

42. Introduction to Power Apps portals

43. Access Common Data Service in Power Apps portals
44. Extend Power Apps portals

45. Build custom Power Apps portals web templates

Module 10: Integrate with Power Platform and Common Data Service

46. Work with Common Data Service Web API

47. Integrate Common Data Service Azure solutions