

PROFESSIONAL COURSE OUTLINE

Microsoft

PL-400

Power Platform Developer Associate

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 design, develop, test, and troubleshoot solution components that use the extension points of Microsoft Power Platform. You use traditional code to solve challenges not appropriate with low-code.

Power Platform

Intermediate

Power Platform

PROGRAM CODE

PL-400

DELIVERY

Virtual, On-site, or Hybrid

DURATION

5 days

CERTIFICATION

Microsoft Certified: Power Platform Developer Associate

AUDIENCE PROFILE

Who This Program Is For

In this course you will learn to build solutions using Visual Studio and Visual Studio Code that include the following: Microsoft Power Platform services, JavaScript, JSON, TypeScript, C#, HTML, RESTful Web APIs, and Microsoft Azure. As a training attendee you must have previous software developer experience using code techniques with modern programming languages such as C# and JavaScript. You must also have a foundational understanding of Microsoft Power Platform and have hands-on experience with the following:

- Developing a data model in Microsoft Dataverse
- Creating tables, columns, and relationships in Microsoft Dataverse
- Building Power Apps canvas apps
- Building Power Apps model-driven apps
- Building Power Automate cloud flows

PROGRAM SUMMARY

What This Course Covers

As a candidate for this certification, you design, develop, test, and troubleshoot solution components using the extension points of Microsoft Power Platform.



Plan the next session

We can tune this outline around your delivery goals and team mix.

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Page 1 of 4

TAILORED DELIVERY

Adapt the program around your team.

This outline can be adapted for virtual, on-site, or hybrid delivery, with emphasis adjusted for your team's platform priorities, role mix, and implementation goals.

Enterprise-ready delivery format

VNode ITeS can align labs, examples, delivery pace, and assessment checkpoints to the required audience profile while preserving the official program sequence where applicable.

COMPLETE MODULE SEQUENCE

Module Flow and Topic Coverage

The structure below presents the current delivery flow for this program, including the associated topics covered under each module.

1

MODULE 1

Use advance techniques in canvas apps to perform custom updates and optimization

Use advance techniques in canvas apps to perform custom updates and optimization

- Use imperative development techniques for canvas apps in Power Apps
- Perform custom updates in a Power Apps canvas app
- Use Dataverse choice columns with formulas
- Reduce complexity in your data model with Dataverse table relationships
- Work with relational data in a Power Apps canvas app
- Work with data source limits (delegation limits) in a Power Apps canvas app
- Complete testing and performance checks in a Power Apps canvas app
- Optimize app load time
- Use Monitor to troubleshoot Power Apps
- Use Power Apps Instrumentation with Application Insights

2

MODULE 2

Automate a business process with expressions and Dataverse actions using Power Automate

Automate a business process with expressions and Dataverse actions using Power Automate

- Get started with Power Automate
- Introduction to expressions in Power Automate
- Use Dataverse triggers and actions in Power Automate

3

MODULE 3

Introduction to developing with Microsoft Power Platform

This learning path is the first step in learning about the platform, tools, and the ecosystem of Power Platform.

- Introduction to Microsoft Power Platform developer resources
- Use developer tools to extend Power Platform
- Introduction to extending Power Platform

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Page 2 of 4

4

MODULE 4

Extend the user experience with client scripting and command bar customization

Extend the user experience with client scripting and command bar customization

- Perform common actions with client script in Power Platform
- Automate business process flows with client script
- Customize the command bar

5

MODULE 5

Build basic code components with the Power Apps Component Framework

Build basic code components with the Power Apps Component Framework

- Get started with Power Apps component framework
- Build a Power Apps component

6

MODULE 6

Extending Power Platform Dataverse

Get started with extending Power Platform Dataverse.

- Introduction to Dataverse for developers
- Extend plug-ins in Power Platform
- Work with Dataverse Web API

7

MODULE 7

Integrate with Dataverse and Azure

Integrate with Dataverse and Azure

- Integrate Dataverse Azure solutions
- Explore Azure Functions
- Develop Azure Functions

8

MODULE 8

Get started with custom connectors for Microsoft Power Platform

Get started with custom connectors for Microsoft Power Platform

- Get started with custom connectors in Microsoft Power Platform
- Discover and use Web APIs with Power Apps
- Configure custom connectors with authenticated APIs in Microsoft Power Platform
- Configure policy templates for custom connectors in Microsoft Power Platform
- Create Microsoft Power Platform OpenAPI custom connectors

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Page 3 of 4

9

MODULE 9

Basic application lifecycle management in Microsoft Power Platform

Learn how to create and manage solutions, understand solution layering, and explore version control for solutions.

- Manage solutions in Power Apps and Power Automate
- Introduction to solutions for Microsoft Power Platform

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Page 4 of 4