PL-400T00 Microsoft Power Platform Developer

Category: AI, Data & Analytics | **Vendor:** Microsoft Technical

Duration: 40.00 hours (5 days) **32.5 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format:	Instructor Led - Online
Certification:	Microsoft Certified: Power Platform Developer Associate
Related Exam:	PL-400

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 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.

About This Course

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.

Who Should Attend

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

Prerequisites & Entry Requirements

General Prerequisites:

Candidates should have an introductory knowledge of Power Platfom

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

Learning Outcomes

Upon successful completion of this course, participants will be able to:

Course ObjectivesCreate a technical designConfigure Common Data ServiceCreate and configure Power AppsConfigure business process automationExtend the user experienceExtend the platformDevelop Integrations, Course ObjectivesCreate a technical designConfigure Common Data ServiceCreate and configure Power AppsConfigure business process automationExtend the user experienceExtend the platformDevelop Integrations, Course ObjectivesCreate a technical designConfigure Common Data ServiceCreate and configure Power AppsConfigure business process automationExtend the user experienceExtend the platformDevelop Integrations, Course ObjectivesCreate a technical designConfigure Common Data ServiceCreate and configure Power AppsConfigure business process automationExtend the user experienceExtend the platformDevelop Integrations, Course ObjectivesCreate a technical designConfigure Common Data ServiceCreate and configure Power AppsConfigure business process automationExtend the user experienceExtend the platformDevelop Integrations, Course ObjectivesCreate a technical designConfigure Common Data ServiceCreate and configure Power AppsConfigure business process automationExtend the user experienceExtend the platformDevelop Integrations, Course ObjectivesCreate a technical designConfigure Common Data ServiceCreate and configure Power AppsConfigure business process automationExtend the user experienceExtend the platformDevelop Integrations, Course ObjectivesCreate a technical designConfigure Common Data ServiceCreate and configure Power AppsConfigure business process automationExtend the user experienceExtend the platformDevelop Integrations, Course ObjectivesCreate a technical designConfigure Common Data ServiceCreate and configure Power AppsConfigure business process automationExtend the user experienceExtend the platformDevelop Integrations, Course ObjectivesCreate a technical designConfigure Common Data ServiceCreate and configure Power AppsConfigure business process automationExtend the user experienceExtend the platformDevelop Integrations, Course ObjectivesCreate a technical designConfigure Common Data ServiceCreate and configure Power AppsConfigure business process automationExtend the user experienceExtend the platformDevelop Integrations, Course ObjectivesCreate a technical

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Detailed Course Outline

1 - Use imperative development techniques for canvas apps in Power Apps

- Imperative versus declarative development
- The three types of variables in Power Apps
- Global variables
- Contextual variables
- Collections
- Additional variable concepts

2 - Perform custom updates in a Power Apps canvas app

- Sometimes you need something more than forms
- Use the Patch function to create and edit records
- Delete records from data sources and collections
- Use the Patch function to update a Gallery

3 - Use Dataverse choice columns with formulas

- Filter Dataverse choice columns with Power Fx formulas
- Modify choice and choices values

4 - Reduce complexity in your data model with Dataverse table relationships

- Work with one-to-many relationships
- Work with many-to-many relationships

5 - Work with relational data in a Power Apps canvas app

- What is relational data?
- Work with relationships in Power Apps
- Microsoft Dataverse for apps makes relationships even easier

6 - Work with data source limits (delegation limits) in a Power Apps canvas app

- Delegation overview
- Functions, predicates, and data sources combine to determine delegation
- Delegation warnings, limits, and non-delegable functions

7 - Complete testing and performance checks in a Power Apps canvas app

- The importance of thinking about performance
- Improve performance with data sources
- Testing and troubleshooting your app

8 - Optimize app load time

- Use Monitor to troubleshoot app start performance issues
- Optimize App.OnStart
- Data load strategies

9 - Use Monitor to troubleshoot Power Apps

- Identify and resolve common problems
- Collaborate by using Monitor

10 - Use Power Apps Instrumentation with Application Insights

- Set up an app for Application Insights
- View Application Insights data
- Custom logging with trace

11 - Get started with Power Automate

- Introducing Power Automate
- Create your first flow
- Troubleshoot flows

12 - Introduction to expressions in Power Automate

- Get started with expressions
- Notes make things easier
- Types of functions
- Write complex expressions

13 - Use Dataverse triggers and actions in Power Automate

- Dataverse triggers
- Query data
- Create, update, delete, and relate actions

14 - Introduction to Microsoft Power Platform developer resources

- Overview of Dataverse and the Common Data Model
- Extending Power Platform with Azure
- Power Platform environments

15 - Use developer tools to extend Power Platform

- Solutions overview
- Deploy apps with Package Deployer

16 - Introduction to extending Power Platform

- User experience extensibility
- Dataverse extensibility
- Determine when to configure or when to code

17 - Perform common actions with client script in Power Platform

- Upload scripts
- Event handlers
- Context objects
- Client scripting common tasks

18 - Automate business process flows with client script

- Client scripting best practices
- Debugging client script

19 - Customize the command bar

- Create or edit modern commands
- Work with classic commands
- Use Power Fx

20 - Get started with Power Apps component framework

- Power Apps component framework architecture
- Power Apps component tooling
- Component manifest
- Demo of the Power Apps code component

21 - Build a Power Apps component

- Create a code component solution package
- Test and debug code components

22 - Introduction to Dataverse for developers

- Microsoft Dataverse extensibility model
- Event framework

23 - Extend plug-ins in Power Platform

- Plug-ins usage scenarios
- Plug-in execution context

24 - Work with Dataverse Web API

- Insomnia
- Authenticate against Microsoft Dataverse using OAuth
- Use OData to query data
- Use FetchXML to query data
- Call Power Automate actions from the Web API
- Use the Web API to impersonate another user
- Track entity data changes with change tracking and the Web API

25 - Integrate Dataverse Azure solutions

- Microsoft Dataverse Azure Solutions overview
- Expose Microsoft Dataverse data to Azure Service Bus
- Write a Service Bus Event Listener that consumes Microsoft Dataverse messages
- Publish Microsoft Dataverse events with webhooks
- Write an Azure Function that processes Microsoft Dataverse events

26 - Explore Azure Functions

- Discover Azure Functions
- Compare Azure Functions hosting options
- Scale Azure Functions

27 - Develop Azure Functions

- Explore Azure Functions development
- Create triggers and bindings
- Connect functions to Azure services

28 - Get started with custom connectors in Microsoft Power Platform

- Demo of the maker portal experience
- Explore custom connector configuration options
- Use a custom connector

29 - Discover and use Web APIs with Power Apps

- What are custom connectors
- What is OpenAPI and why you should use it
- Test the custom connector

30 - Configure custom connectors with authenticated APIs in Microsoft Power Platform

- Authentication options
- Use APIs with Azure AD
- Configure Microsoft Entra ID authentication
- Share and move between environments

31 - Configure policy templates for custom connectors in Microsoft Power Platform

- Use expressions to access runtime values
- Use policies for data conversion
- Configure host URL and routing
- Add or update values

32 - Create Microsoft Power Platform OpenAPI custom connectors

- Use OpenAPI extensions
- Use the dynamic list of values extension
- Use dynamic schema

33 - Manage solutions in Power Apps and Power Automate

- Add and remove apps, flows, and entities in a solution
- Edit a solution-aware app, flow, and table
- Build and deploy a complex solution with flows, apps, and entities
- Automate solution management

34 - Introduction to solutions for Microsoft Power Platform

- Solution layering
- Solution architecture tools and techniques
- Use version control for solutions

, How to build your first model-driven app with Dataverse, Get started with model-driven apps in Power Apps, Manage tables in Dataverse, Create and manage columns within a table in Dataverse, Working with choices in Dataverse, Create a relationship between tables in Dataverse, Define and create business rules in Dataverse, Create and define calculation or rollup columns in Dataverse, Get started with security roles in Dataverse, Get started with Power Apps canvas apps, Customize a canvas app in Power Apps, Manage apps in Power Apps, Navigation in a canvas app in Power Apps, How to build the User Interface in a canvas app in Power Apps, Use and understand Controls in a canvas app in Power Apps, Document and test your Power Apps application, Use imperative development techniques for canvas apps in Power Apps, Create formulas that use tables, records, and collections in a canvas app in Power Apps, Perform custom updates in a Power Apps canvas app, Complete testing and performance checks in a Power Apps canvas app, Work with relational data in a

Power Apps canvas app, Work with data source limits (delegation limits) in a Power Apps canvas app, Connect to other data in a Power Apps canvas app, Use custom connectors in a Power Apps canvas app, Get started with Power Automate, Build approval flows with Power Automate, Introduction to expressions in Power Automate, Introduction to Microsoft Power Platform developer resources, Use developer tools to extend Power Platform, Introduction to extending Power Platform, Introduction to Dataverse for developers, Extend plug-ins in Power Platform, Perform common actions with client script in Power Platform, Automate business process flows with client script, Get started with Power Apps component framework, Build a Power Apps component, Use advanced features with Power Apps component framework, Access Dataverse in Power Pages websites, Extend Power Pages websites, Build custom Power Pages web templates, Work with Dataverse Web API, Integrate Dataverse Azure solutions, Extend Power Apps portals, Build custom Power Apps portals web templates, Get started with the Power Apps component framework, Access Dataverse in Power Apps portals, Use advanced features with the Power Apps component framework, Use developer tools to extend Microsoft Power Platform, Introduction to extending Microsoft Power Platform, How to build the UI in a canvas app in Power Apps

□□ Certification Path

Microsoft Certified: Power Platform Developer Associate

Exam: PL-400

Upcoming Schedule

Available training dates for PL-400T00 Microsoft Power Platform Developer:

Start Date	End Date	Location	Delivery	Price
14 Dec 2026	18 Dec 2026	Online	Virtual	€2,995.00

Frequently Asked Questions

Q: What delivery options are available for PL-400T00 Microsoft Power Platform Developer?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: What certification does this course prepare me for?

The PL-400T00 Microsoft Power Platform Developer course helps prepare you for the Microsoft Certified: Power Platform Developer Associate certification path.

Q: Which exam does this course prepare me for?

This course prepares you for the PL-400 official exam. You can take this exam at any exam center across United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online wherever you are located.

Q: How many CPD hours does this course provide?

The 5-day PL-400T00 Microsoft Power Platform Developer course provides up to 32.5 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the PL-400T00 Microsoft Power Platform Developer training?

The training takes place over 5 day(s), with each day lasting approximately 40.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for PL-400T00 Microsoft Power Platform Developer?

Yes, we provide corporate training, dedicated training, and closed classes for PL-400T00 Microsoft Power Platform Developer. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: PL-400T00: Microsoft Power Platform Developer, Microsoft, vILT, PL-400T00

Q: Why choose Nexus Human for PL-400T00 Microsoft Power Platform Developer?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your PL-400T00 Microsoft Power Platform Developer training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

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