

# Microsoft Power Platform Developer

The Microsoft Power Platform Developer (PL-400) training is an authorized course designed for developers who want to learn the advanced capabilities of building and extending solutions within the Microsoft Power Platform environment. Participants will learn how to design and develop business applications, automate processes, integrate services, and implement custom solutions using Power Apps, Power Automate, Microsoft Dataverse, and Azure. The training combines theory with practical exercises, enabling participants to create flexible, secure, and high-performance solutions tailored to business needs.



## Training recipients

The Microsoft Power Platform Developer (PL-400) training is intended for:

- developers and business application programmers who want to build custom solutions on the Power Platform,
- data engineers and system integrators responsible for connecting Power Platform with external services and Azure,
- technical consultants developing solutions for clients using Dataverse, Power Apps, and Power Automate,
- administrators and Power Platform solution makers who want to deepen their knowledge of application architecture and lifecycle,
- individuals preparing for the PL-400: Microsoft Power Platform Developer certification exam.



## Benefits

- Creating and extending Power Platform applications – you will learn how to build model-driven and canvas apps, customize their logic, and optimize performance.

- Working with Microsoft Dataverse – you will learn how to manage data structures, relationships, security, and extend Dataverse using plugins and APIs.
- Automating business processes – you will learn how to design workflows in Power Automate using advanced functions and expressions.
- Integrating with Azure services – you will learn how to connect Power Platform with Azure Functions, Logic Apps, and other cloud services to build scalable solutions.
- Creating custom components and connectors – you will learn how to extend Power Platform functionality using the Power Apps Component Framework and custom connectors.



## Training program

1. Work with Microsoft Dataverse
  1. Introduction to Microsoft Dataverse
  2. Manage environments
  3. Manage customizations with solutions
  4. Create and manage tables in Microsoft Dataverse
  5. Create and manage columns in Microsoft Dataverse
  6. Create relationships between tables in Dataverse
  7. Create and define calculated and rollup columns in Dataverse
  8. Define and create business rules in Microsoft Dataverse
  9. Manage security in Microsoft Dataverse
2. Create model-driven apps
  1. Get started with model-driven apps
  2. Configure forms
  3. Configure views
  4. Command bar
3. Create canvas apps
  1. Get started with Power Apps
  2. Understanding Low Code as a Traditional Developer
  3. Customize a canvas app in Power Apps
  4. Navigation in a canvas app in Power Apps
  5. Power Fx formulas
  6. Canvas components
  7. Document and test your Power Apps application
4. Advanced techniques in canvas apps
  1. Use imperative development techniques for canvas apps
  2. Perform custom updates in a canvas app
  3. Use Dataverse choice columns with formulas
  4. Work with relational data in a canvas app

5. Work with data source limits (delegation limits) in a canvas app
6. Performance in canvas apps
5. Automate a business process using Power Automate
  1. Get started with Power Automate
  2. Introduction to expressions in Power Automate
  3. Use Dataverse triggers and actions in Power Automate
  4. Advanced features of cloud flows
6. Introduction to developing with Power Platform
  1. Introduction to Microsoft Power Platform developer resources
  2. Use developer tools to extend Microsoft Power Platform
  3. Introduction to extending Microsoft Power Platform
  4. Work with Dataverse APIs
7. Extending the model-driven apps user experience
  1. Performing common actions with client script
  2. Best practices with client script
8. Create code components with the Power Apps Component Framework
  1. Get started with Power Apps component framework
9. Extending Microsoft Dataverse
  1. Introduction to Dataverse for developers
  2. Create plug-ins
10. Integrate with Dataverse and Azure
  1. Integrate with Azure
  2. Integrate with Dataverse
11. Custom Connectors
  1. Get started with custom connectors in Power Automate
12. Application lifecycle management
  1. Solutions and Application Lifecycle Management
13. Create a Technical Design (Optional)
  1. Technical architecture



## Expected preparation of the participant

Candidates for this course design, develop, secure, and troubleshoot Power Platform solutions.

Candidates implement components of a solution that include application enhancements, custom user experience, system integrations, data conversions, custom process automation, and custom visualizations.

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.

To make work more convenient and training more effective we suggest using additional screen. Lack of

extra screen does not make it impossible to participate in the training, but significantly influences the convenience of work during classes

We recommend prior participation in trainings: PL-900,PL-7003,PL-7001, PL-7002

Information and requirements concerning participation in distance learning trainings is available at: <https://www.altkomakademia.pl/en/how-it-works/about-courses/>



## Training Includes

\* electronic handbook available at:

<https://learn.microsoft.com/pl-pl/training/>

\* access to Altkom Akademia student portal

Training method:

explanations of technical concepts,

practical laboratories

demo,



## Language

- **Training:** English
- **Materials:** English

## Examination method

The exam is on-line. You can enroll at: <https://home.pearsonvue.com/Clients/Microsoft.aspx>

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## Examination description

After the PL-400 course, you can take Microsoft certification exams:an Authorized Test Center,online being monitored by an offsite proctor. Details on the website:<https://learn.microsoft.com/en-us/certifications/exams/pl-400/>