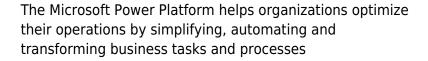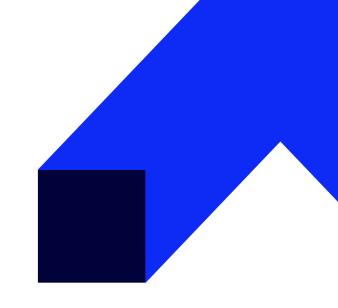# Microsoft Power Platform Developer

Authorized Microsoft Power Platform Developer PL-400
Distance Learning training.

The Microsoft Power Platform helps organizations optimize
their operations by simplifying, automating and
transforming business tasks and processes

Purpose of the training

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. Candidates will gain applied
knowledge of Power Platform services, including in-depth understanding of capabilities, boundaries, and
constraints.

Benefits of completing the training

Completing the training on Microsoft Power Platform offers multiple benefits, including the ability to work
with Microsoft Dataverse, create and manage environments within Dataverse, customize and manage
tables, design and configure model-driven apps, build canvas apps, automate business processes with
Power Automate, extend the capabilities of Power Platform, integrate with Azure, create custom
connectors, and understand application lifecycle management. These skills enable you to effectively
utilize the platform's capabilities, build customized applications, automate processes, integrate with
other systems, and extend functionality to meet unique business needs. By completing the training, you
gain a comprehensive understanding of Microsoft Power Platform and become equipped to maximize its

potential in your organization.

Examination method

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

Exam 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/

Expected Listener Preparation

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

Information and requirements conerning participation in distance learning trainings is available at: https://www.altkomakademia.pl/distance-learning/#FAQ

Training Language

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

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,

Duration

5 days / 35 hours

Training agenda

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