



# PL – 400

## Microsoft Power Platform Developer

### Overview

As a candidate for this certification, you 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 for low code. You implement the parts of a business solution that include:

- Custom user experiences
- Custom business logic
- System integrations
- Data conversions
- Custom process automation
- Complex Power Fx formulas
- Workflow expressions

You must have:

- A strong applied knowledge of Microsoft Power Platform services, including in-depth understanding of its capabilities, boundaries, and constraints
- An applied knowledge of authentication, security, and application lifecycle management (ALM) practices for the Microsoft Power Platform
- An applied knowledge of Microsoft Power Platform developer tools including Power Platform CLI as part of the developer workflow

As a candidate, you should have development experience that includes Microsoft Power Platform services, JavaScript, JSON, TypeScript, C#, HTML, RESTful Web APIs, Visual Studio, Visual Studio Code, and Microsoft Azure.

## Prerequisites

Participants should have:

- A fundamental understanding of Microsoft Power Platform components.
- Basic experience with development practices and coding.
- Familiarity with data modeling, user interface design, and process automation.
- Experience working with Microsoft Dataverse (formerly known as Common Data Service) is beneficial.
- Basic knowledge of Power Apps, Power Automate, and Power Virtual Agents is recommended.
- Understanding of basic programming concepts, preferably in languages such as JavaScript, C#, or similar.)

## Course Level

- Advanced

## Course Duration

- 5 Day – 40 Hours

# Creating Tailor - Made Training Programs to Meet Your **Specific Goals**

## Discovery Process

Join us on a discovery journey to uncover your organization's unique needs. Through insightful conversations and meticulous analysis, we'll identify your training requirements.

01



## Training Framework Development

We'll craft a custom roadmap to boost your team's skills, integrating advanced instructional design for engaging, comprehensive training.

02



## Program Delivery

We'll bring your training vision to life with precision and care. Our seasoned trainers will expertly guide transformative learning experiences, fostering engagement and skill acquisition at every step.

03



## Outcome Assessment

We'll continuously evaluate training effectiveness through robust methodologies, gathering and analyzing participant feedback for invaluable insights and improvement opportunities.

04



## Cost-Benefit Analysis

We'll quantify the tangible and intangible benefits of your training investment, showcasing improved performance metrics and heightened employee satisfaction, proving the substantial returns from our partnership.

05



## Course Outline

Enhance your development skills with the PL-400 Power Platform Developer Associate certification course. This comprehensive training program is designed for developers who want to build solutions on the Microsoft Power Platform. Gain expertise in extending the capabilities of Power Apps, Power Automate, and Power Virtual Agents to create innovative business solutions.

### Module 1: Work with Microsoft Dataverse

- Lesson: Introduction to Microsoft Dataverse
- Lesson: Manage environments
- Lesson: Manage customizations with solutions
- Lesson: Create and manage tables in Microsoft Dataverse
- Lesson: Create and manage columns in Microsoft Dataverse
- Lesson: Create relationships between tables in Microsoft Dataverse
- Lesson: Create and define calculated and rollup columns in Microsoft Dataverse
- Lesson: Define and create business rules in Microsoft Dataverse
- Lesson: Manage security in Microsoft Dataverse
- **Lab 1.** Data modelling

### Module 2: Create Model-Driven Apps

- Lesson: Get started with model-driven apps
- Lesson: Configure forms and views
- Lesson: Command bar
- **Lab 2:** Model Driven App

### Module 3: Create Canvas Apps

- Lesson: Get started with Power Apps
- Lesson: Understanding Low Code as a Traditional Developer
- Lesson: Customize a canvas app
- Lesson: Navigation in a canvas apps
- Lesson: Power Fx formulas
- Lesson: Canvas components
- Lesson: Testing canvas apps
- **Lab 3:** Canvas app

### Module 4: Advanced techniques in Canvas Apps

- Lesson: Use imperative development techniques for canvas apps
- Lesson: Perform custom updates in a canvas app
- Lesson: Use Dataverse choice columns with formulas
- Lesson: Work with relational data in a canvas app
- Lesson: Work with data source limits (delegation limits) in canvas apps

- Lesson: Performance in canvas apps
- **Lab 4:** Advanced canvas app techniques

#### **Module 5: Automate a business process using Power Automate**

- Lesson: Get started with Power Automate
- Lesson: Introduction to expressions in Power Automate
- Lesson: Use Dataverse triggers and actions in Power Automate
- Lesson: Advanced features of cloud flows
- **Lab 5:** Power Automate

#### **Module 6: Introduction to developing with Power Platform**

- Lesson: Introduction to Power Platform developer resources
- Lesson: Use developer tools to extend the Power Platform
- Lesson: Introduction to extending the Microsoft Power Platform
- Lesson: Work with Dataverse APIs
- **Lab 6:** Power Platform tools
- **Lab 7:** Power Platform APIs

#### **Module 7: Extending the model-driven app user experience**

- Lesson: Performing common actions with client script
- Lesson: Best practices with client script
- **Lab 8:** Client scripting

#### **Module 8: Create code components with the Power Apps Component Framework**

- Lesson: Get started with Power Apps component framework
- **Lab 9:** Power Apps Component Framework (Optional)

#### **Module 9: Extending Microsoft Dataverse**

- Lesson: Introduction to Dataverse for developers
- Lesson: Create plug-ins
- **Lab 10:** Dataverse Plug-ins

#### **Module 10: Integrate Dataverse and Azure**

- Lesson: Integrate with Azure
- Lesson: Integrate with Dataverse
- **Lab 11:** Azure Functions (Optional)
- **Lab 12:** Publishing events externally

#### **Module 11: Custom Connectors**

- Lesson: Get started with custom connectors
- Lesson: Azure API Management and custom connectors
- Lesson: OpenAPI definitions
- Lesson: Policy templates
- **Lab 13:** Custom Connector (Optional)

**Module 12: Application lifecycle management (ALM)**

- Lesson: Solutions and Application Lifecycle Management

**Module 13: Create a Technical Design**

- Lesson: Technical architecture
- **Exercise:** Evaluate configure vs code options

## Indus Tech Services

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### Who We Are....

Indus Tech Services is an IT company that specializes in providing comprehensive training, consulting & implementation services for software solutions designed to address the diverse business challenges faced by organizations today. With a passion for technology and a deep understanding of business processes, Indus Tech is committed to empowering businesses to optimize their operations, boost productivity, and drive sustainable growth.

### Why Choose Us...

From time to time, life serves up a profound nudge, urging us to step beyond our routines and make a difference in the world. Indus Tech Services emerged from one such compelling wake-up call. We are not just a company; we are a dedicated force with a belief in providing solutions to organizations, regardless of their size, and we infuse a human touch into everything we do.

### Our Expertise

With over 25 years of collective experience navigating the intricacies of daily business transactions, irrespective of geographical, cultural, time zone, or language barriers, our team has honed their expertise to meet any challenge head-on. This wealth of experience has armed our resources with an unparalleled understanding and skill set to tackle a broad spectrum of obstacles.

### Training

With two decades of unwavering commitment and a global footprint, our company is a true pioneer in the fields of linguistic, transactional, technical, and behavioural training for some of the world's largest corporate entities. Our unparalleled expertise has been refined through years of dedication and innovation, making us the go-to choice for businesses seeking transformative training solutions.

## Consulting

Our company has been at the forefront of providing world-class IT consulting services to organizations spanning the globe. With an extensive and proven track record, we have honed our expertise to meet the ever-evolving technological needs and challenges faced by businesses, regardless of their scale or industry.

## Implementation

Our experience covers a broad spectrum of IT implementation services, including system integration, software deployment, network architecture, cloud migration, and infrastructure setup. We understand that the successful execution of IT projects is pivotal to an organization's growth and efficiency. Therefore, we bring a depth of knowledge and a commitment to delivering results that set us apart.

To know more contact us at [info@industechservices.com](mailto:info@industechservices.com) or call us at +91 - 99961 61170.