

## PL-500T00: Microsoft Power Automate RPA Developer

**Course Duration: 40 Hours**

**Course code: PL-500**

### 1. Course Overview

The PL-500T00: Microsoft Power Automate RPA Developer course equips attendees with the skills needed to design, implement, and maintain robotic process automation (RPA) solutions using Microsoft Power Automate. Participants will learn to build process automations that interact with both modern and legacy systems, ensuring robust and efficient operations across a variety of environments. The course combines theory with hands-on labs to reinforce foundational knowledge and promote real-world application.

### 2. What you'll learn?

- How to design efficient RPA solutions using Power Automate Desktop
- Best practices for implementing flows that automate both GUI-based and backend processes
- Methods to integrate and orchestrate attended and unattended automation with the Power Automate cloud
- Techniques to debug, test, and maintain robust automations
- Ways to leverage secure credential management and data handling
- How to scale automation solutions within enterprise environments and adhere to governance and compliance standards

### 3. Target Audience

This course is ideal for:

- Developers looking to build scalable, high-performance applications using NoSQL patterns
- Developers and IT professionals interested in automating business processes with Microsoft technologies

- Automation specialists looking to expand their RPA toolkit with Power Automate
- Business analysts and solution architects designing automated workflows
- Anyone preparing for the Microsoft PL-500 certification exam (Power Automate RPA Developer)

## 4. Pre-Requisites

- Basic familiarity with Windows applications and operating systems
- General understanding of process design and business workflows
- Comfortable navigating web browsers and understanding core concepts of APIs or data exchange (e.g., JSON, Excel)
- (Optional but helpful) Prior experience with any RPA tool or Microsoft Power Platform component such as Power Apps or Power Automate cloud flows

## 5. Course content

### Module 1: Introduction to Microsoft Power Automate RPA

- Overview of Power Automate ecosystem and RPA concepts
- Understanding attended vs. unattended automation models

### Module 2: Power Automate Desktop Fundamentals

- Desktop UI walkthrough and installation setup
- Recording workflows and building action models
- Debugging flows using test models and breakpoints

### Module 3: Building Desktop Automations

- Designing process models for desktop automation
- Automating UI elements (click, type, extract data)
- Data operation models: variables, loops, and conditional logic

## **Module 4: Integrating with Power Automate Cloud**

- Linking desktop automation models to cloud flows
- Data exchange models between desktop and cloud processes
- Use cases for hybrid automation models (scheduled tasks, approvals, email triggers)

## **Module 5: Advanced Techniques and Governance**

- Security models: credential management and secure inputs
- Error handling and exception models for resilient automation
- Performance tuning and optimization models for efficiency

## **Module 6: Deployment, Monitoring, and Maintenance**

- Deployment models for unattended and attended RPA solutions
- Monitoring models: tracking flow runs, logs, and analytics
- Version control and lifecycle management models

## **Module 7: Certification Readiness (PL-500 Exam)**

- Reviewing the Microsoft Power Automate RPA Developer competency model
- Practice questions and scenario-based automation models
- Study resources and final preparation tips