

RPA Developer Training – UiPath & Microsoft Power Automate (RPA)

Course Description

This comprehensive training program combines **UiPath Automation Developer Skills** and **Microsoft Power Automate Flow with RPA Skills** to provide a strong foundation in Robotic Process Automation (RPA) across two leading platforms. The course equips learners with the knowledge and practical skills required to design, develop, and manage automation solutions using UiPath Studio and Microsoft Power Automate (Cloud and Desktop).

Participants will learn end-to-end automation development including UI automation, data manipulation, workflow design, error handling, orchestration, AI integration, and unattended automation. The training prepares learners for real-world enterprise automation projects and certification readiness in both platforms.

Audience Profile

- Aspiring Automation Developers
 - Business professionals and analysts
 - IT administrators and developers
 - Automation specialists
 - Students or freshers entering RPA domain
 - Professionals supporting automation projects
 - Individuals preparing for UiPath ADAv1 certification
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Prerequisite

- Basic computer literacy
- Basic programming knowledge (recommended for Power Automate)
- No prior UiPath certification required

Course Objective

- Build and manage automation projects using UiPath Studio
 - Design and develop workflows using Microsoft Power Automate (Cloud & Desktop)
 - Automate UI, Excel, email, file systems, and PDFs
 - Implement selectors, synchronization, and error handling
 - Develop attended and unattended RPA solutions
 - Integrate automation with APIs, connectors, and external systems
 - Use Orchestrator and Power Automate governance tools
 - Apply debugging, logging, and testing practices
 - Prepare for UiPath Automation Developer Associate (ADAv1) certification
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Section 1: UiPath Automation Developer Associate (ADAv1)

1. Explore Automation Development with UiPath
 - Introduction to automation and UiPath
2. Build Your First Automation Process with Studio
 - Creating, publishing, and running basic automations
3. Variables, Constants and Arguments in Studio
 - Managing data flow between activities and workflows
4. Control Flow in Studio
 - Implementing core principles of control flow
5. Excel Automation with Modern Experience
 - Working with Excel files and DataTables
6. UI Automation with Modern Design
 - Modern UI automation capabilities

7. Data Manipulation (Strings, Lists, Dictionaries)
 - Advanced data handling
8. UI Automation Synchronization
 - Stability in UI automation
9. UI Automation Descriptors and Selectors (Deep Dive)
 - Selector strategies and management
10. Debugging, Error, and Exception Handling
 - Troubleshooting techniques
11. Working with Files, Folders, and Email Automation
 - File handling and email workflows
12. PDF Automation
 - Data extraction from PDFs
13. DataTables Handling
 - Managing large datasets
14. Logging in Studio
 - Implementing logging mechanisms
15. Orchestrator Overview
 - Automation orchestration basics
16. Working with Orchestrator Resources
 - Assets, queues, and resources
17. Object Repository
 - Reusable UI components
18. Integration Service Overview
 - External integrations
19. Version Control Integration
 - Code collaboration

20. Workflow Analyzer

- Code quality and standards

21. RPA Testing

- Automation validation

22. Project Organization

- Structuring automation projects

23. Automation Implementation Methodology

- Best practices

24. Assessment and Feedback

25. Completion and Certification Preparation

Section 2: Microsoft Power Automate with RPA

1. Introduction to Power Automate

- Overview and benefits
- Access and setup
- Lab: Tenant setup and account creation

2. Getting Started with Power Automate

- Templates and navigation
- Editing, publishing, triggering flows
- Lab: Absence process automation
- Lab: Notification workflow

3. Power Automate Logic

- Conditions, switches, loops
- Do-until and scopes
- Lab: Documentation review automation

4. Integration

- Connectors (standard & premium)
 - Web services integration
 - On-premises connectivity
 - Lab: SQL integration scenario
5. Power Automate Desktop (PAD)
- Environment setup
 - Desktop flow creation
 - Recording and testing
 - Lab: First desktop automation
6. Input and Output Parameters
- Variables and UI elements
 - Lab: Input-output flow
7. Outlook Integration
- Email-triggered automation
 - Lab: Email notification flow
8. Cloud and Desktop Flow Integration
- Gateway setup
 - Connecting cloud and desktop flows
 - Lab: Integrated automation
9. AI Builder Integration
- Invoice processing
 - Model training and deployment
 - Lab: AI-based invoice processing
10. Unattended Automation
- Setup and execution
 - Best practices

- Lab: Unattended automation flow