Faysal Aziz

Building with UiPath

Hands-On Automation Construction in 2 Days

FA-0124 · 2 Days

Automation, RPA & Power Platform

Introduction

Building effective automations isn’t just about understanding tools—it’s about translating real business needs into scalable solutions. Over two immersive days, you'll learn to design, construct, and deploy end-to-end workflows using UiPath’s modern platform. Leveraging decades of industrial automation insight, this course goes beyond the theoretical—it’s about crafting functional bots that can be deployed in real environments.

Learning outcomes

By the end of this course, participants will be able to:

- Architect and build complete UiPath workflows tailored to business use cases
- Use StudioX and Studio to handle desktop, web, email, Excel, PDF, and OCR automation
- Monitor and manage robot execution—including exception handling and retry strategies
- Publish bots to Orchestrator and set up scheduling, queuing, and transaction logging
- Implement best practices for selectors, maintainability, and scalability

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Prerequisites

- Basic understanding of logic structures (variables, loops, conditional flows)
- Familiarity with Windows applications and Microsoft Office
- Access to UiPath Studio (Community or Enterprise) and optionally Orchestrator

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Training outline

1. 1. Platform & Project Planning

- Quick overview: UiPath platform, Studio (X & Pro), Robot, and Orchestrator
- Defining automation use cases—gathering requirements and selecting scenarios
- Structuring your automation project for clarity and maintainability

2. 2. Core Studio Techniques

- Navigating Studio and StudioX: when to use each
- Workflow types: Sequence, Flowchart, State Machine
- Using variables, arguments, and data types for dynamic automation

3. 3. UI & Data Interactions

- Desktop and web automation using recordings and manual activity placement
- Crafting robust selectors: anchor-based selectors and dynamic properties
- Excel integration: read/write, filtering, and data tables
- Email automation: Outlook actions, sending structured content

4. Document Processing & OCR

- PDF handling: Text extraction vs. OCR
- Implementing OCR engines for scanned documents and receipts
- Validating and cleaning extracted data

4. 5. Exception Handling & Debugging

- Studio’s debugging tools: breakpoints, watches, logs
- Designing Try/Catch blocks and Retry Scopes for resilience
- Logging frameworks for tracing execution and errors

5. 6. Advanced Framework & Orchestrator Deployment

- Building with UiPath REFramework: transaction loops, state handling
- Introduction to job queuing and transaction management
- Publishing to Orchestrator: setting up schedules, triggers, and monitoring

- Using queues and transaction logs for multi-bot scaling

6. 7. Capstone: End-to-End Bot Development

- Business problem: e.g., automate invoice intake—download, read PDF, extract data, update Excel, send email
- Full workflow design and building: UI activities, data tables, error traps
- Publishing and executing via Orchestrator
- Monitoring bot runs, analyzing data logs, and iterating

7. Training Approach

- **Hands-On & Project-Centric**: Each module ties directly into the final capstone build
- **Industry-Grounded**: Course content based on real enterprise automation use cases
- **Expert Insights**: Instructor shares practical lessons from three decades of RPA deployments

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