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Intelligent Automation with Power Platform

Power Apps, Power Automate & AI-Driven Copilots in 3 days

FA-0253 · 3 days

Agentic & Generative AI · AI for Leaders & Business · Automation, RPA & Power Platform

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Introduction

Build smarter apps, automated workflows, and AI-enhanced business solutions with natural language, prompt engineering and model training.

This course equips professionals with the skills to harness Microsoft's Power Platform for productivity and automation. It goes beyond traditional low-code app building and workflow automation by integrating **Copilot and AI Hub capabilities**, enabling users to create **AI-augmented apps and automations using natural language**, train and deploy **custom models**, and design **intelligent AI prompts** that can be embedded in apps and flows.

Attendees will learn real-world techniques that drive measurable business outcomes — not just theory — taught by an instructor with over 30 years of industry experience. The course emphasizes practical, demanding industry content to empower participants to build solutions that automate complex processes and enhance decision-making through AI.

Learning outcomes

By the end of this 3-day course, participants will be able to:

- Explain the architecture and components of **Microsoft Power Platform** and how AI capabilities fit within it.
- Create low-code business applications with **Power Apps** using both canvas and model-driven approaches.

- Build automated workflows in **Power Automate** including triggers, actions and integration with AI Builder and Copilot.
- Use **Copilot in Power Apps and Power Automate** to generate apps and flows through natural language prompts.
- Navigate and leverage the **Copilot/AI Hub** to manage AI features and adopt AI-centric governance and insights.
- Train and customize AI models and build reusable **prompt components** to integrate generative AI into solutions.
- Apply Power Fx and AI Builder to insert AI-driven intelligence into apps and flows.
- Deploy solutions that boost productivity, improve business outcomes, and support data-driven decision-making.

Prerequisites

Participants should have:

- Basic understanding of business processes and automation concepts.
- Familiarity with Microsoft 365 and cloud applications.
- Desire to work with Power Platform and AI-enabled tools.
- A laptop with access to a Power Platform environment (Power Apps, Power Automate, Dataverse).

Training outline

1. Overview of Power Platform and AI Integration

Introduction to Microsoft Power Platform

- Components: Power Apps, Power Automate, Power BI, Power Pages
- Power Platform ecosystem and governance

What is Generative AI in Power Platform

- Overview of Copilot in Power Platform
- AI Hub / Copilot Hub central admin and monitoring
- Responsible AI and security considerations

2. Power Apps Fundamentals

Power Apps Studio and app types

- Canvas apps

- Model-driven apps

Dataverse essentials

- Tables, relationships, security

Building basic UI and business logic

- Screens, controls, forms, galleries
- Power Fx fundamentals

3. Copilot in Power Apps

Introduction to Copilot in Power Apps

- Natural language driven app creation
- Generating tables and screens from business descriptions

Using Copilot for editing and enhancing apps

- Modifying controls and formulas
- Contextual suggestions and optimization

Enabling Copilot chat in model-driven apps

- Configuration settings
- Interactive use cases

4. AI Builder in Power Apps

AI Builder models: prebuilt and custom

- Sentiment, text extraction, classification

- Adding AI components to canvas apps
- Using Power Fx with AI models in apps

5. Power Automate Fundamentals

Creating workflows and automation

- Triggers, actions, connectors
- Cloud flows vs. desktop flows

Introduction to AI Builder in Power Automate

- Adding intelligence to flows
- Using prebuilt AI models

6. Copilot in Power Automate

- Generating flows with natural language
- Copilot in automation center
- Using Copilot to analyze and fix errors
- Desktop automation and Copilot

7. Integrating Apps and Flows

- Passing data between Power Apps and Power Automate
- Building end-to-end automated solutions
- Error handling and debugging

8. AI Hub and Copilot Management

Overview of Copilot/AI Hub capabilities

- Monitoring usage, governance, insights

- Configuring AI settings and environment governance
- AI feature adoption best practices

9. Prompt Engineering and Custom Prompts

- Introduction to prompts and their role

  Using AI Hub / Copilot Studio to build prompts

  - Defining input variables and dynamic content
  - Testing and validating prompts
- Incorporating prompts into apps and flows

10. Model Training and Custom AI Models

Creating and training custom AI models

- Understanding model types and use cases

- Using “bring your own model” for advanced scenarios
- Lifecycle: train, test, deploy, monitor

11. Copilot Studio and Agent Creation

Copilot Studio fundamentals

    - Creating AI agents
    - Agent flows and integration with Power Automate
- Building conversational and task agents
- Dynamic functionality and Power Fx in Copilot Studio

12. Productivity and Automation Best Practices

- Design patterns for scalable automation
- Reusability strategies
- Performance and monitoring

13. Solution Deployment and Governance

- Packaging and deploying solutions
- Dataverse security and licensing considerations
- Monitoring AI usage and cost

14. Hands-On Labs and Real Use Cases

- Build a complete Power Apps solution with AI insights
- Automate a business process using Copilot generated flows
- Train a simple AI model and apply it across apps and flows
- Build a custom prompt and integrate it into a productivity solution

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