Build intelligent applications Training

Duration: **3 Day**

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The **Build Intelligent Applications with Microsoft Power Platform** course is designed for professionals who want to create AI-powered business applications using Microsoft's low-code platform. Participants will explore how Power Apps, Power Automate, Power Pages, Microsoft Dataverse, AI Builder, Copilot Studio, and other AI-enabled capabilities work together to deliver modern, intelligent business solutions.

The programme focuses on developing practical applications that solve real organisational challenges by combining automation, artificial intelligence, and data-driven design. Throughout the course, learners will build applications, design data models, automate business processes, apply prompt engineering techniques, configure approval workflows, and implement governance, security, and Responsible AI best practices.

Participants will also discover how copilots and AI agents can enhance user experiences, improve productivity, and streamline business operations across the Microsoft Power Platform ecosystem.

Prerequisites

Participants should have:

- A basic understanding of business processes and digital workflows.
- General familiarity with Microsoft 365 or similar cloud-based business applications.
- Confidence using online business applications and digital services.
- No previous programming experience is required.

Knowledge of Microsoft Power Platform fundamentals, including Power Apps, Power Automate, or Dataverse, is beneficial but not essential.

Who Should Attend

This course is suitable for:

- Power Platform App Makers
- Citizen Developers
- Business users
- Functional consultants
- Professionals beginning their Power Platform journey
- Teams developing AI-enhanced business applications

It is also valuable for professionals responsible for analysing business requirements, selecting appropriate Power Platform technologies, and designing intelligent business solutions that improve productivity and user experience.

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What You Will Learn

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

- Explain how Microsoft Power Platform components work together to deliver AI-enabled business solutions.
- Analyse business requirements and recommend appropriate Power Platform services.
- Build canvas apps, model-driven apps, and data-driven websites using low-code technologies.
- Design and manage Microsoft Dataverse data models.
- Develop automated business processes with Power Automate.
- Create AI-powered solutions using AI Builder and Copilot Studio.
- Apply prompt engineering techniques to improve AI-assisted interactions.
- Implement governance, security, and Responsible AI principles within Power Platform solutions.

Training Outline

Module 1: Designing AI-Powered Business Solutions

- Understanding Microsoft's AI-first Power Platform strategy
- Analysing business requirements
- Selecting appropriate Power Platform components
- Identifying automation and AI agent opportunities
- Extending Power Platform solutions

Module 2: Prompt Engineering for Generative AI

- Fundamentals of prompt engineering
- Prompt structures and design principles
- Types of AI prompts
- Improving AI-generated responses
- Prompt refinement techniques

Module 3: Transforming Business Ideas into Power Platform Solutions

- Using Power Apps Plans
- AI-assisted requirements gathering
- Creating data models
- Reviewing technology recommendations
- Building complete business solutions

Module 4: Introduction to Microsoft Dataverse

- Dataverse architecture
- Tables and relationships
- Data management
- Importing business data
- Security configuration
- Business rules and auditing

Module 5: Managing Dataverse Tables and Columns

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- Understanding Dataverse column types
- Working with prompt columns
- Configuring primary columns
- Auto-numbering columns
- Alternate keys
- Data validation techniques

Module 6: Managing Security in Dataverse

- Environment roles
- Managing users
- Security roles
- Creating custom roles
- Team configuration
- Access management

Module 7: Building Canvas Apps with Power Apps

- Creating canvas applications
- Using the Maker Portal
- Connecting data sources
- Building apps from Excel with Copilot
- Integrating Power Apps with Power Automate and Power BI

Module 8: Customising Canvas Applications

- User interface design
- Controls and screens
- Using Power Fx formulas
- Navigation techniques
- Reusable components
- AI-assisted development

Module 9: Publishing and Managing Canvas Apps

- Publishing applications
- Sharing apps securely
- Version management
- Application Lifecycle Management (ALM)

Module 10: Developing Model-Driven Apps

- Understanding model-driven applications
- Forms, views, and dashboards
- Business process flows
- Copilot Chat integration
- AI agents within model-driven apps

Module 11: Configuring Forms, Charts, and Dashboards

- Managing forms
- Creating multiple form experiences
- Configuring views

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- Building charts and dashboards
- Extending applications with custom pages

Module 12: Introduction to Power Pages

- Power Pages architecture
- Dataverse integration
- Website creation
- Security configuration
- Extensibility features

Module 13: Power Pages Design Studio

- Creating and managing website pages
- Working with page components
- Styling websites
- Managing site security
- Adding AI-powered agents
- Using Copilot features during development

Module 14: Getting Started with Power Automate

- Creating cloud flows
- Scheduled automation
- Email automation
- Flow management
- Troubleshooting workflows
- Converting flows into agent workflows

Module 15: Using Dataverse with Power Automate

- Dataverse triggers
- Querying business data
- Creating, updating, deleting, and relating records
- Building automated flows using the Dataverse connector

Module 16: Building Approval Workflows

- Designing approval processes
- Creating approval requests
- Business process flows
- Conditional workflow automation

Module 17: Creating AI Builder Prompts with Dataverse

- Building grounded prompts
- Using Dataverse data with AI Builder
- Applying grounded prompts in cloud flows
- Using prompts in canvas apps
- Integrating prompts with custom copilots

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Examination and Assessment

This course aligns with the objectives of the **Microsoft AB-410** certification exam.

Throughout the programme, learners will reinforce their knowledge through:

- Knowledge checks
- Module assessments
- Practical exercises
- Instructor-led demonstrations
- Hands-on laboratories
- Real-world business scenarios

Please note: The Microsoft AB-410 certification exam is not included with this course and must be purchased separately.

Hands-On Learning

The course places a strong emphasis on practical experience. Participants will:

- Build Power Apps applications.
- Design Microsoft Dataverse data models.
- Create Power Automate workflows.
- Develop AI Builder prompts.
- Build Power Pages websites.
- Work with Copilot Studio capabilities.
- Implement AI-powered business applications.
- Complete guided labs based on realistic organisational scenarios.