

AB-410T00-A: Build intelligent applications

Course Duration: 3 days (24 hours)

Overview

This course teaches learners how to design and build intelligent applications on the Microsoft Power Platform by using AI, copilots, and agents to solve real business problems. Learners explore how Power Apps, Power Automate, Power Pages, Copilot Studio, and AI-enabled capabilities work together to create agent-first, AI-enhanced solutions that improve productivity, decision-making, and user experience.

Audience Profile

This course is designed for individuals who want to learn how to build intelligent applications using the Microsoft Power Platform and are new to using AI, copilots, and agents in solution design. It is ideal for learners with a general understanding of business processes or app building who want to develop the skills to analyze requirements, select appropriate Power Platform components, and create AI-enhanced solutions. The course introduces how AI and agents can improve application behavior, automation, and user experience, while also building awareness of governance and responsible use as learners begin their journey into intelligent app development.

Course Syllabus

Learning Path 1: Get started with AI-first solutions in Microsoft Power Platform

Module 1: Design AI-powered business solutions with Microsoft Power Platform

- Explore the AI-first Power Platform
- Recommend Power Platform components for business solutions
- Map business processes to AI-first solution patterns
- Explore extensibility options in Power Platform

Module 2: Create effective prompts for generative AI training tools

- Prompt-based generative AI model
- What is prompt engineering?
- Identify the types of prompt instructions
- Create effective prompts

Module 3: Turn business ideas into Power Platform solutions with Plans

- Explore plans and the AI agents that power them
- Create a plan and refine the requirements

- Review the data model and technology proposal
- Build and manage your solution
- Create a plan from an existing solution

Learning Path 2: Build your data model with Microsoft Dataverse

Module 1: Create tables in Dataverse

- Introduction to Microsoft Dataverse
- Table characteristics
- Exercise - Create a Microsoft Dataverse table
- Exercise - Import data into your Microsoft Dataverse database
- Table relationships
- Exercise - Create table relationships
- Dataverse logic and security
- Exercise - Create a custom table and import data
- Dataverse auditing
- Dual-write vs. virtual tables

Module 2: Create and manage columns within a table in Dataverse

- Define columns in Microsoft Dataverse
- Column types in Microsoft Dataverse
- Add a column to a table
- Primary column
- Restrictions that apply to columns in a table
- Create an auto numbering column
- Create an alternate key
- Exercises

Module 3: Get started with security roles in Dataverse

- Introduction to environment roles
- Understand environment roles
- Adding or disabling an environment user
- Understand user security roles and security role defaults
- Exercise - Create a custom role
- Check the roles that a user belongs to
- Configure Dataverse teams for security
- Configure Dataverse group teams for security

Module 4: Define and create business rules in Dataverse

- Define business rules - Introduction

- Define the components of a business rule
- Create a business rule
- Exercise - Create a business rule

Learning Path 3: Build intelligent apps and portals with Microsoft Power Apps

Module 1: Get started with Power Apps canvas apps

- Start Power Apps
- Exercise - Create your first app in Power Apps
- Power Apps data sources
- Exercise - Create an app from Excel using Copilot
- Use Power Apps with Power Automate and Power BI
- Designing a Power Apps app

Module 2: Customize a canvas app in Power Apps

- Improve your app by making basic customizations
- Explore controls and screens in canvas apps
- Exercise - Introduction to formulas in canvas apps
- Exercise - Create basic screen navigation for a canvas app

Module 3: Publish, share, and maintain a canvas app

- Exercise - Publish your app
- Exercise - Share your app
- Exercise - Maintain your app
- Application lifecycle management

Module 4: Get started with model-driven apps in Power Apps

- Introducing model-driven apps
- Components of model-driven apps
- Design model-driven apps
- Exercise
- Exercise - Control security when sharing model-driven apps
- Incorporate business process flows
- Exercise - Create a model-driven app

Module 5: Configure forms, charts, and dashboards in model-driven apps

- Forms overview
- Form elements
- Configure multiple forms

- Use specialized form components
- Configure views overview
- Configure grids
- Create and edit views
- Configure charts overview
- Dashboards overview
- Use interactive streams and tiles

Module 6: Core components of Power Pages

- **Introduction to Power Pages**
- **Get started with Power Pages**
- **Core tools and components of Power Pages**
- **Overview of Power Pages security**
- **Overview of Power Pages extensibility**

Module 7: Explore Power Pages design studio

- Introduction to Power Pages design studio
- Work with pages
- Page components
- Site styling and templates
- Exercise - Edit pages

Learning Path 4: Automate and extend your solutions with AI in Microsoft Power Automate

Module 1: Get started with Power Automate

- Introducing Power Automate
- Create your first flow
- Exercise - Create recurring flows
- Exercise - Monitor incoming emails
- Exercise - Share flows
- Troubleshoot flows

Module 2: Use Dataverse triggers and actions in Power Automate

- Dataverse triggers
- Query data
- Create, update, delete, and relate actions
- Exercise - Create a cloud flow with a Dataverse connector

Module 3: Build approval flows with Power Automate

- Provide solutions to real-world scenarios.
- Simulation - Build an Approval Request
- Simulation - Create a Business Process Flow
- Simulation - Create a Business Process Flow That Has Conditions

Module 4: Create AI Builder prompts using your own Dataverse data

- Exercise - Create a grounded prompt in AI Builder
- Use a grounded prompt in a cloud flow
- Use a grounded prompt in a canvas app
- Use a grounded prompt in a custom copilot