

KOENIG SOLUTIONS • COURSE OUTLINE

Bootcamp Training in Microsoft Power Automate Cloud and Microsoft Power Apps Integration

Learn to integrate Power Automate Cloud with Power Apps to build, automate and troubleshoot dynamic business solutions.

40 Hours

DURATION

10

MODULES

69

TOPICS

COURSE OVERVIEW

The objective of this bootcamp is to provide participants with practical skills in integrating Microsoft Power Automate Cloud with Microsoft Power Apps to develop dynamic, automated business solutions. Participants will learn how to create interactive apps, automate data processes, and enhance productivity by leveraging the power of both platforms.

WHO THIS COURSE IS FOR

This bootcamp is designed for business professionals, IT administrators, citizen developers, automation specialists, and solution architects who want to gain hands-on experience integrating Microsoft Power Automate Cloud with Microsoft Power Apps. It is ideal for those looking to build custom business applications, automate workflows, and streamline processes without extensive coding knowledge.

LEARNING OBJECTIVES

- Develop and integrate custom Power Apps solutions with Power Automate Cloud to automate business processes and improve efficiency
- Configure and manage automated workflows that interact with Power Apps, SharePoint, Dataverse, and other Microsoft 365 services
- Implement advanced automation techniques such as approval workflows, AI Builder integration, and error handling to create robust, scalable applications

10 Modules, 69 Topics

01

Introduction to the Power Automate

TOPICS

- Understanding Microsoft Power Automate
- The synergy of Power Automate and Power Apps in the Power Platform
- Real-world applications and benefits of integrating Power Automate and Power Apps
- Setting Up Your Environment
- Creating a Power Automate environment
- Configuring a Power Apps environment

02

Exploring Power Automate Basics

TOPICS

- Getting Started with Power Automate
- Understanding the basic components of a flow
- Navigating the Power Automate user interface
- Creating your first automated flow from scratch
- Triggering Flows
- Understanding triggers and trigger types
- Configuring triggers for different events (e.g., When an item is created, when a button is clicked)
- Exploring manual and automated triggers
- Working with Actions
- Introduction to actions and action types
- Building actions to perform various tasks (e.g., sending an email, creating a SharePoint item)
- Configuring inputs and outputs for actions

03

Introduction to Power Apps Basics

TOPICS

- Canvas Apps Fundamentals
- Data Connections and Data Sources
- Connecting Power Apps to data sources (e.g., SharePoint, SQL Server, Dataverse)
- Integrating Power Apps with Power Automate for data processing
- Model-Driven Apps Essentials
- Import a solution

04

Integrating Power Automate with Power Apps

TOPICS

- Triggering Flows from Power Apps
- Building an on-demand flow trigger using buttons and icons
- Using Power Automate in response to specific user actions
- Passing data between Power Automate and Power Apps parameters
- Power Apps Controls for Flows
- Incorporating Power Automate flows directly into Power Apps using the Flow control
- Utilizing the Start a flow action to trigger flows from within apps
- Controlling flow execution with wait conditions and delays

05

Building Complex Flows Integration with Apps

TOPICS

- Composite Flows
- Creating complex flows by combining multiple flows into a single flow
- Understanding scope, input, and output for composite flows
- Passing data between composite flows and child flows

06

Automating Data Entry and Updates

DESIGNING DATA ENTRY FORMS

- Creating data entry forms using the Power Apps Forms control
- Customizing form behaviour with validation rules and error handling
- Implementing cascading dropdowns and dependent fields

AUTOMATING DATA ENTRY WITH POWER AUTOMATE

- Building a flow to automate data entry and validation
- Integrating AI Builder for automated data extraction and classification
- Using scheduled flows for periodic data updates

CREATING DATA UPDATE FLOWS

- Designing data update flows for record updates and deletions
- Using Power Automate flow buttons to initiate data updates
- Implementing security measures for sensitive data updates

07

Enhancing Power Automate Skills

TOPICS

- Implementing complex conditions and branching in flows
- Utilizing expressions and functions for advanced flow logic
- Looping and iterating through data with Apply to Each and Do Until
- Introduction to custom connectors and their benefits
- Creating and using custom connectors in flows
- Integrating with APIs and web services using custom connectors

ADVANCED FLOW CONCEPTS

- Using expressions and functions for advanced flow logic
- Implementing conditions and loops in flows
- Utilizing variables to store and manipulate data within flows

08

Building Basic Approval Workflows

INTRODUCTION TO APPROVAL PROCESSES

- Understanding the Approval action in Power Automate
- Configuring approval steps and participant settings
- Using the Approval Status column in SharePoint or Dataverse for approvals

CREATING A LEAVE REQUEST APPROVAL FLOW

- Designing a leave request form in Power Apps
- Building an approval flow for leave requests with email notifications
- Handling approval responses within Power Apps

09

Power Automate Desktop

TOPICS

- Introduction to Power Automate Desktop for desktop automation
- Automating web and desktop applications with UI automation
- Creating flows to streamline repetitive tasks
- Create an Integration Flow for Power Apps- Power Automate Cloud-Power Automate Desktop

10

Error Handling and Troubleshooting

UNDERSTANDING COMMON FLOW ERRORS

- Identifying and troubleshooting common errors in Power Automate
- Handling errors with the Scope and Terminate actions
- Implementing error notification and logging mechanisms

DEBUGGING FLOWS AND APPS

- Using the Run History and Flow Checker for flow debugging
- Leveraging the Monitor tool for detailed flow analysis

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

FLEXIBLE DELIVERY

Learn the Way That Suits You

Classroom Training

Live Online Classes (ILO)

Fly-Me-A-Trainer (FMAT)

Flexi (Self-Paced)

1-on-1 Training

Ready to Get Started?

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✉ info@koenig-solutions.com