Master Power Automate Cloud and Desktop: Automate Your Workflows and Processes

Target Audience

This course is designed for business professionals, IT administrators, RPA developers, automation specialists, and citizen developers who want to master both Power Automate Cloud and Power Automate Desktop to streamline workflows and automate business processes. It is ideal for those looking to integrate cloud-based automation with desktop automation to enhance productivity and efficiency.

Course Objective

The objective of this course is to provide participants with a comprehensive understanding of Microsoft Power Automate Cloud and Desktop, enabling them to design, develop, and manage automation solutions across cloud and on-premises environments. Participants will learn to build end-to-end automation workflows, integrate applications, and optimize processes for seamless automation.

Course Outcome

- **Design and implement advanced automation workflows** using Power Automate Cloud to connect cloud applications, databases, and enterprise services.
- **Develop and execute desktop automation (RPA) solutions** using Power Automate Desktop to automate manual, repetitive tasks across legacy and web applications.
- **Optimize, monitor, and troubleshoot automation solutions** by applying best practices in error handling, security, and performance tuning for both cloud and desktop workflows.

Course Outline

The course comprises **56-hours** of theory and labs and is divided into **12** different chapters. Each chapter will be followed by **hands-on lab exercises** to reinforce learning and gauge understanding of the topics covered.

Module 1. Introduction to Power Automate

- Overview of Power Automate and its features.
- Setting up a Power Automate account.
- Navigating the Power Automate interface.
- Understanding basic concepts and terminology.

Module 2. Power Automate Connectors

- Introduction to connectors and their role in automation.
- Using popular connectors and creating custom connectors.
- Harnessing connectors to enable seamless integrations.

Module 3. Building Power Automate Flows

- Creating flows from templates and from scratch.
- Configuring triggers and actions for automation.
- Implementing conditional branching and loops in flows.

Module 4. Power Automate Administration

- Managing users and environments in Power Automate.
- Enforcing data loss prevention policies.
- Analysing flow usage and performance.
- Ensuring governance and security in Power Automate.

Module 5. Power Automate Integration

- Integrating with SharePoint, Dynamics 365, Power Apps, Teams, and Outlook.
- Leveraging Power Automate for seamless communication and collaboration

Module 6. Power Automate Advanced Concepts

- Using expressions and variables for complex automation.
- Creating and using custom connectors for specific services.
- Implementing parallel branches for concurrent processing.

- Handling errors and retries in workflows.
- Scoping actions for better workflow management.

Module 7. Power Automate Desktop
- Introduction to Power Automate Desktop for desktop automation.
- Automating web and desktop applications with UI automation.
- Creating flows to streamline repetitive tasks.

Module 8. Power Automate with APIs

- Introduction to APIs and their role in Power Automate.
- Working with APIs to fetch and update data.
- Creating custom APIs for tailored integrations.
- Handling JSON and XML data in workflows.
- Implementing authentication and authorization mechanisms.

Module 9. Power Automate with Azure

- Understanding Azure services and their integration with Power Automate.
- Creating Azure Functions and Logic Apps for automation.
- Building flows with Azure services for advanced scenarios.

Module 10. Power Automate with Power BI

- Utilizing Power Automate for Power BI integration.
- Creating flows to automate data refresh and notifications in Power BI.

Module 11. Power Automate with AI Builder

- Introduction to AI Builder and its capabilities.
- Integrating AI Builder models into Power Automate flows.
- Creating custom AI Builder models for intelligent automation.

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Module 12. Power Automate with Microsoft Dataverse

- Understanding Microsoft Dataverse and its role in Power Automate.
- Creating flows to automate business processes with Dataverse.
- Configuring custom entities and fields for tailored solutions