



# Mastering **Power Automate**: Advanced Techniques for Streamlining Workflows

## Target Audience

This course is designed for experienced Power Automate users, business process automation specialists, IT professionals, and developers who want to deepen their understanding of advanced automation techniques. It is ideal for those looking to streamline complex workflows, integrate multiple systems, and optimize automation strategies for enterprise-level efficiency.

## Course Objective

The objective of this course is to provide participants with advanced knowledge and hands-on experience in designing, implementing, and optimizing complex workflows using Power Automate. Participants will learn how to leverage advanced expressions, error handling, API integrations, and governance best practices to enhance automation efficiency.

## Course Outcome

- **Design and implement advanced workflows** using custom connectors, expressions, and data manipulation techniques to automate complex business processes.
- **Integrate Power Automate with external APIs and enterprise applications** to create seamless, automated solutions across multiple platforms.
- **Optimize, monitor, and troubleshoot workflows** by applying best practices in performance tuning, error handling, and governance for scalable automation solutions.

## Course Outline

The course comprises **32-hours** of theory and labs and is divided into **11** different chapters. Each chapter will be followed by **hands-on lab exercises** to reinforce learning and gauge understanding of the topics covered.



## **Module 1. Power Automate Fundamentals**

Dynamic content and expressions  
Lab 01 - Preparation tasks

## **Module 2. Variables, Conditions, and Loops**

Working with variables  
Conditional statements  
Looping statements  
Lab 02 - Conditions and loops

## **Module 3. Functions and Expressions**

Expression basics  
Anatomy of a function  
Advanced expressions  
Expression editor  
Functions  
Expressions or actions  
Lab 03 - Functions and expressions

## **Module 4. Adaptive Cards**

Introduction to Adaptive Cards  
Adaptive Cards designer  
Using an Adaptive Card  
Lab 04 - Adaptive Cards

## **Module 5. Advanced Control Properties and OData**

Introduction to OData  
Common advanced settings  
Advanced trigger settings  
Lab 05 - Advanced properties Edit and test recorded actions



## **Module 6. Advanced Approvals**

- Approval options
- Custom responses
- Approval limitations
- Adding reminders to approvals
- State pattern
- Lab 06 - Advanced approvals

## **Module 7. SharePoint HTTP Action**

- Making an HTTP request to SharePoint
- Lab 07 - SharePoint HTTP action

## **Module 8. Power Apps Integration**

- The flow
- Calling the flow from Power Apps
- Capturing returned data
- Lab 08 - Working with Power Apps

## **Module 9. Best Practices and Error Handling**

- Documentation
- Optimizing flows
- Keep flow configurations generic
- Handling errors
- Lab 09 - Handling errors

## **Module 10. Parent and Child Flows**

- Parent / Child flows general principle
- Using a Solution
- Lab 10a - Child flows: HTTP action
- Lab 10b - Child flows: solutions



## **Module 11. Microsoft Graph API**

Introduction to the Microsoft Graph API  
Lab 11 - Using the Microsoft Graph API