



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