

# Office 365 - Advanced

# **Course Overview - 1-day course**

# Efficiency in Office 365 through automation

Microsoft's Office 365 is an expansive eco-system of applications extending beyond the traditional word processor and accounting spread sheet. These traditional (and critical) systems sit alongside a new wave of computing power within reach of end-users, in a way that has never been available before.

Taking advantage of the tools at our disposal has never been so obvious of a competitive advantage as it is now. This course will enable advanced end-users, who have started their journey of increased integration between Office 365 products, to raise their skills and knowledge to the next level. It is focused on automation and workflow for increased capabilities in using these tools.

# **Detailed Content**

#### Introduction

Course Objectives How this manual is organised What is Office 365? Office 365 Subscriptions

#### Power Automate - Error Handling

Introduction to Error Handling Error Handling in Power Automate Error Types in Power Automate Create an error free Flow in Power Automate Cause the Flow to error View successful actions & triggers View failed actions & triggers Error handling techniques **Configuring Run Conditions** Handle the error with a parallel branch Add an action after the parallel branches Handle the outcome of all branches Use Terminate to successfully end a Flow More complex but efficient alternative error handling

### Power Automate -Debugging

Debugging in Power Automate View the output of an action Using Compose to see data Variables for debugging Using a variable to capture debug information Variables versus Compose View a complex output from an action Debugging with Static Results Causing an error with Static Results Advice for Debugging and Error Handling

#### Power Automate - Data and JSON

Basic data Types in Power Automate Object and Array data types What is JSON **JSON** examples How to handle JSON How a Flow is defined (JSON) A string of JSON in a Flow An Object of JSON in a Flow Handling data in JSON format Parse JSON data Extended Topic – JSON Schemas More complex JSON data Accessing an array of JSON data

### Power Automate -Expressions

What is the Workflow Definition Language The Workflow Definition Language Schema The functions reference for Workflow Definition Language Writing Expressions in Power Automate The expression pane

# Power Automate - String

## **Expressions**

A Basic String function Combining String functions together

# Power Automate -

Variables in expressions Variable naming conventions The variables() function Referencing a variable in another function

# Power Automate -

# Arrays & Collections

What is an array What is a collection Defining an array Looping through an array Filtering an array The length of an array Find if an element exists in an array Accessing an array element by index

# Power Automate - Data

# & Math Expressions

Arithmetic Functions Conversion functions



# Office 365 - Advanced

# Power Automate -Date/Time types and expressions

- The Date and Time data type Date and Time functions Time Zone functions Formatting Dates and Times
- Power Automate -

# Advanced Functions

The workflow() function Data from the trigger The dot (.) operator Data from an action Operators to access data fields Avoiding errors with NULL or missing fields The ? operator Have a default if value is null Other function groups

#### Power Automate -Configuration

Introduction to limits **Trigger Conditions Tracked Properties** Create a Tracked Property **Accessing Tracked Properties** A calculation from a Tracked Property Extended Exercise - Using a calculated output for Tracked Property Other Power Automate settings Secure Inputs and Outputs **Concurrency Control Timeouts and Retries** Other settings

### **SharePoint Automation**

Power Automate and SharePoint SharePoint Triggers SharePoint Actions SharePoint caution with actions and triggers Perform an action on an item using Power Automate Share a SharePoint Flow Select file and initiate the Flow Use SharePoint metadata to advise user Expand the SharePoint Flow functionality Content Approval in SharePoint

SharePoint Approval Process SharePoint Workflows Using Power Automate to manage SharePoint Approvals Create a Flow to Approve SharePoint files Add an approval action to the SharePoint Flow The approval response handling Testing the approval Flow

## **Advanced SharePoint**

# Actions via API

The magic behind Power Automate About Application Programming Interfaces **API Methods** Other API considerations The SharePoint API action The SharePoint API via a web browser Finding the site Title from the API Filter only needed data using **ODATA** format Accessing the property only Use the Title in our approval Flow More ODATA query examples ODATA filters Format of a response References for the SharePoint API

# Teams - Adaptive Cards

Types of Teams Apps What are Adaptive Cards Uses for Adaptive Cards in Teams Structure of an Adaptive Card Templates in Adaptive Cards A basic Adaptive Card sample Modify the sample Adaptive Card JSON Populate an Adaptive Card with data from the Flow Adaptive Card Schema Text Formatting a Card Adaptive Card Designer Create an Adaptive Card in designer Test run the new card with **Power Automate** Add dynamic fields to the custom card Modify the card in designer with fields intact

Adding inputs to the trigger Extended Topic – Actions on an Adaptive card Action buttons on cards Action on elements Adding actions to a card Other types of card elements At mentions in cards (alternative)

### Power Platform in SharePoint

Why is the Power Platform so useful What are Power Apps Power Apps and Data (SharePoint) Create a SharePoint list Manage the list with a 3screen Power App Trying to break the Power App Modify the SharePoint column Add an option to the column Modifying the Power App Saving, Sharing and Publishing the Power App Housekeeping to clean-up our environment

# **Cognitive Services**

Traditional Computing What is Artificial Intelligence What is Machine Learning Uses for Artificial Intelligence **Microsoft Cognitive Services** What is Azure **Text Analysis** Image Analysis **Computer Vision** Facial Recognition **Face Verification Face Detection Emotion Recognition** Artificial Intelligence in Office 365 Artificial Intelligence in the Power Platform Al Builder in Power Platform Where to from here