**Power Platform Administration Course**

Duration : 5 days (8 hours per day)

**Prerequisites**

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| **Software and Hardware Requirements** |
| Windows 10 / 11 |
| Cloud 16 GB RAM / Laptop 8GB RAM |
| Internet access  - Broadband |
| Admin Access |
| Office 365 Developer Subscription - free |
| Power BI Desktop - free |
| MS Office Word and Excel |
| SQL Developer Edition 2019 - free |
| Microsoft SQL Server Management Studio 19 |
| On-premises data gateway - free |
| Azure Subscription |

**Introduction to Power Platform**

**Day 1**

Module 1: Setup Lab Environment

* What is Microsoft Power Platform?
* Data connectors and Data Sources for connectors
* Setup Office 365 Developer Subscription

Module 2: Introduction to Microsoft Dataverse

* Identify tables and columns in Dataverse
* Understand relationships
* Environments in Microsoft Dataverse
* Business rules
* Security, Governance, and Integration
* Lab : Data modelling in Data verse

Module 3: Power Apps overview

* How to build a canvas app
* How to build a model-driven app
* Self Service Portal
* Lab: How to build a simple canvas app
* Lab: How to build a simple model-driven app
* Lab: How to build a Portal

**Day 2**

Module 4: Power Automate overview

* How to build an automated solution
* Approval Flows
* Lab: How to build an automated solution

Module 5: Power BI overview

* How to build a simple dashboard
* Lab: How to build a simple dashboard

Module 6: Power Virtual Agents overview

* How to build a chatbot
* Lab: How to build a basic chatbot

Module 7: User and group management

* Identity and access management
* User accounts and roles
* Different User roles
* Lab: Create new users and roles

**Power Platform Administration**

**Day 3**

Module 1: Power Platform Licensing Models

* License Types
* Power Apps Licenses Plans.
* Power Automate Licenses Plans.
* Using Power Apps Admin Center to review user licenses.

Module 2: Microsoft Power Platform Environment

* Understand Power Platform Environments.
* Environment Scope/Regions.
* Understanding Environment Types.
* Understanding Environments Security.
* Provisioning Power Platform Environments.
* Environments Capacity.
* Create and Manage Environments
* Lab: Create Delete and Control Environments
* Environments: Backup Restore
* Environment Settings and Analytics
* Environment clean-up

Module 3: Power Platform Apps and flow Management

* Export and import flows
* Export and import Apps
* Solution Management
* Export and import Solution
* Demo & Hands-on

Module 4: Set up Power Platform Security

* Understanding Power Platform Security
* Conditional Access
* Environment Security and Access Controls
* CDS Role-based Security
* Environment Data Encryption
* Cross Tenant Restrictions
* Demo & Hands-on

Module 5: Set up Monitoring

* Monitor Tenant Resources
* Demo: Monitor Tenant Resources
* Monitor Activity Logs
* Demo: Monitor Activity Logs
* Monitor Usage and Demo
* Audit log connector for telemetry
* Application audit and application life cycle

Module 6: Compliance and Licensing

* Power Platform Compliance
* Risk Assessment
* Data Loss Protection (DLP)
* Understand Data Loss Prevention Policies.
* DLP Policies Scope.
* How to Create a DLP Policy.
* How to Manage a DLP Policy
* Lab: Data Loss Protection (DLP)

Module 7: Microsoft Power Platform Center of Excellence (CoE) Starter Kit

* Overview
  + Motivation
  + Download
* Admin
  + Setup
  + Use
  + Deep Dive
* Govern
  + Setup
  + Use
  + Deep Dive
* Nurture
  + Set up
  + Use

Module 8: Automating Power Platform Administration

* Power Platform cmdlet
* Scripting
* Demo & Hands-on

**Day 4 & Day 5**

**Power BI Administration**

Module 1: Power BI License Model & Components

* Licensing
* Components
  + Power BI Desktop
  + Power BI Gateway
  + Power BI Mobile Apps
  + Power BI Service
  + Power Query
* Supported Data Sources
* Comparison with Other BI Tools
* Data modelling and visualizations

Module 2: Understanding the Power BI Administrator Role

* Self Service and Enterprise
* Global Admin
* Power Platform Administrator
* Power BI Administrator
* Create and Manage users and Roles
* Demo & Hands-on

Module 3: Providing Governance in a Power BI Environment

* Tenant and Organizational settings
* Role of Administration and Governance
* Elements of Data Governance
* Manage administration
* Demo & Hands-on

Module 4: Facilitating Collaboration and Sharing

* Workspaces and apps
* Permissions in workspaces
* Difference Data sources
* Sharing
* Publish to the web
* Embedding links
* Exploring Data Sensitivity
* Demo & Hands-on

Module 5: Usage Monitoring and Auditing

* Admin portal
* Usage metrics for dashboards and reports
* Audit logs
* Activity log
* Create a Manage alerts and reports
* Demo & Hands-on

Module 6: Provisioning Premium Capacity

* Power BI Premium
* Pro vs. Premium
* Premium Resource Management
* Add and Manage Capacity
* Demo & Hands-on

Module 7: Establishing a Data Access Infrastructure

* Custom Connector
* Gateway
* Data connectivity modes
* Personal vs. enterprise gateway
* Setup Data Gateway and access on-premises data
* Demo & Hands-on

Module 8: Automating Power BI Administration

* Power BI cmdlet
* Scripting
* Demo & Hands-on

Module 9: Optimize Model Performance

* Optimize the model for performance
* Optimize Direct Query Models
* Create and manage Aggregations

Module 10: Row-level security

* Row-Level Security in Power BI