

*Please find below day wise detailed syllabus of workshop.*

*Note: If there is shortage of time then some of the topics on a particular day will be covered on the next subsequent day*

### **Day1:**

What is Azure? (Azure subscription, Region, Resource groups, Intro to azure services)

Azure Data Factory V2

What is Azure Data Factory?

Lab: Provisioning a Data Factory Service

Lab: Building blocks of Data Factory ( Linked Services, Datasets, Integration Runtime, Triggers etc)

### **Day2:**

Lab: Copy Data Activity – Scenario 1 ( copy from Azure SQL/DataLake as source to Azure SQL/DataLake as destination)

Lab: Copy Data Activity – Scenario 2 ( copy from on prem file/db as source to Azure SQL/DataLake as destination)

Lab: Working with Control Flow activities

- Get Metadata Activity
- Filter Activity
- If Activity
- Wait Activity
- For Each loop activity
- Lookup activity
- Stored procedure activity

### Day3:

Lab: Working with Data Flow activities (Transforming data)

- Source Transformation
- Sink Transformation
- Conditional Split Transformation
- Derived Column Transformation
- Lookup Transformation
- Select Transformation
- Filter Transformation
- Join Transformation
- Exists Transformation

### Day4:

Lab: Introduction to Parameters

- Parameterize Pipeline and data sets

Lab: Implement CI/CD using Azure devops

### Day5:

Project implementation

- End to End Architecture implementing modern dwh using Azure Data Factory, SQL DB, Data Lake
- Build Extract pipeline to load incremental data using a metadata driven dynamic pipeline
- Implement SCD Type 1 using ADF
- Implement dynamic folder structures in Azure data Lake using ADF pipelines

(organize the data in datalake in folder structure like year/month/day/filename etc)