# Microsoft Cloud Workshop: Big Data & Visualization (MS-40502)

**Modality: Virtual Classroom**

**Duration: 1 Day**

**SATV Value: 1**

## About this course:

To forecast travel delays provided flight delay information and environmental conditions, complete a web application utilizing Machine Learning. Plan the import operation of large amounts of data, accompanied by planning, like manipulating and cleaning the test data, and preparing the Machine Learning model.

The average income for an MS Azure skilled Solutions Developer is $620,244 per annum.

## Course Objective:

Participants will be well able to develop a complete Azure ML system to forecast if there will be disruptions in a coming flight. Participants will also discover how to:

· Batch data analysis for SQL Database

· Integrate the Azure Machine Learning web service for both one at a time and batch forecasts into a Web Application

· Using Power BI to show batch forecasts on a map

## Audience:

This online training program is designed for IT professionals and Cloud Architects who have solutions design and infrastructure architecture experience in cloud technology and want to know more about Azure and its services as defined in the ' At Course Completion ' and ' About this Course ' areas. Anyone taking this training should also be trained in other cloud technologies other than MS, fulfill the preconditions of the program, and want to cross-train on Azure.

## Prerequisite:

Lab layout presumes 300-level architectural skills of solutions design and infrastructure.

## Suggested Prerequisite:

· Azure-Fundamentals

## Career Path:

· Big Data

## Course Outline:

### Module 1: Whiteboard Design Session - Big Data & Visualization

### Lessons

- Review the customer case study
- Design a proof of concept solution
- Call to action: Present the solution

### Module 2: Hands-on lab unguided - Big Data & Visualization

### ?Lessons

- Before the hands-on lab
- Build a machine learning model
- Set up Azure Data Factory
- Develop data factory pipeline for data movement
- Operationalize ML scoring with Azure ML and Data Factory
- Summarize data using HDInsight Spark
- Visualizing in Power BI Desktop
- Deploy intelligent web app
- After the hands-on lab