Course Name	Design and Implement Data Science Solution on Azure (DP-100)
Course Duration	4 Day (32 hours)
Time Division	**Break:** 15 + 45 + 15 mins
Course Outcomes	Design and prepare a machine learning solution
	Explore data and train models
	Prepare a model for deployment
	Deploy and retrain a model

Important Note:

- Courseware – Reference material/ppt along with lab files/exercises will be provided
- Azurepass/Virtual Machine will be provided only during the training time to perform the labs

Module	Content
Module 01	**Explore and configure the Azure Machine Learning workspace**
1.1	Explore Azure Machine Learning workspace resources and assets
	Lab: Explore Azure Machine Learning workspace resources and assets
1.2	Explore developer tools for workspace interaction
	Lab: Explore developer tools for workspace interaction
1.4	Work with compute targets in Azure Machine Learning
	Lab: Work with compute targets in Azure Machine Learning
1.5	Work with environments in Azure Machine Learning
	Lab: Work with environments in Azure Machine Learning
Module 02	**Work with Data in Azure Machine Learning**
2.1	Make data available in Azure Machine Learning
	Lab: Make data available in Azure Machine Learning
Module 03	**Experiment with Azure Machine Learning**
3.1	Find the best classification model with Automated Machine Learning
	Lab: Train a model with the Azure Machine Learning Designer
	Lab: Find the best classification model with Automated Machine Learning
3.2	Track model training in Jupyter notebooks with MLflow
	Lab: Track model training in notebooks with MLflow
Module 04	**Train models with scripts in Azure Machine Learning**
4.1	Run a training script as a command job in Azure Machine Learning
	Lab: Use MLflow to track training jobs
4.2	Track model training with MLflow in jobs
	Lab: Track model training with MLflow in jobs
Module 05	**Optimize model training with Azure Machine Learning**
5.1	Run pipelines in Azure Machine Learning
	Lab: Run pipelines in Azure Machine Learning
5.2	Perform hyperparameter tuning with Azure Machine Learning
	Lab: Perform hyperparameter tuning with Azure Machine Learning
Module 06	**Deploy and consume models with Azure Machine Learning**
6.1	Deploy a model to a managed online endpoint
	Lab: Log and register models with MLflow
	Lab: Compare and evaluate models
	Lab: Deploy a model to a managed online endpoint
6.2	Deploy a model to a batch endpoint
	Lab: Deploy a model to a batch endpoint