PL-300: Design and Manage Analytics Solutions Using Power BI

Summary: Duration – 3 full days, Level - 200 (MS Scale), Delivery method - Virtual Instructor-led class or In-class

The Design and manage analytics solutions using Power BI course is designed to build expertise in data analysis, modeling, and visualization using Power BI's full capabilities. Participants will learn to connect to and transform data, build semantic models, and create effective reports and calculations using enhanced DAX functions and updated filter context labs. The PL-300 course also introduces Microsoft Fabric for integrated analytics workflows, alongside refreshed modules on content distribution, workspace management, and secure data access. With the removal of classic dashboards and a new emphasis on collaboration and scalability, this course prepares learners for both the PL-300 exam and real-world data challenges in enterprise and self-service BI environments.

AUDIENCE:

The audience for this course are data professionals and business intelligence professionals who want to learn how to accurately perform data analysis using Power BI. This course is also targeted toward those individuals who develop reports that visualize data from the data platform technologies that exist on both in the cloud and on-premises. Job role: Data Analyst.

TOPICS:

Module 1. Get started with Microsoft data analytics

- ✓ Discover data analysis
- ✓ Get started building with Power BI
- ✓ Create interactive reports using Copilot for Power BI

Module 2. Prepare data for analysis with Power BI

- ✓ Get data in Power BI
- ✓ Clean, transform, and load data in Power BI

Module 3. Model data with Power BI

- ✓ Describe Power BI Desktop models
- ✓ Choose a Power BI model framework
- ✓ Design a semantic model in Power BI
- ✓ Write DAX formulas for Power BI Desktop models
- ✓ Add measures to Power BI Desktop models
- ✓ Add calculated tables and columns to Power BI Desktop models
- ✓ Use DAX time intelligence functions in Power BI Desktop models

Module 4. Build Power BI visuals and reports

- ✓ Scope report design requirements
- ✓ Design Power BI reports
- ✓ Create visual calculations in Power BI Desktop
- ✓ Configure Power BI report filters
- ✓ Enhance Power BI report designs for the user experience
- ✓ Perform analytics in Power BI
- ✓ Create paginated reports

- ✓ Optimize a model for performance in Power BI
- ✓ Enforce Power BI model security

Module 5. Manage workspaces and datasets in Power BI

- ✓ Create and manage workspaces in Power BI
- ✓ Manage semantic models in Power BI
- ✓ Create dashboards in Power BI
- ✓ Implement row-level security