COURSE SYLLABUS

PL-300: Microsoft Power BI Data Analyst Course

Master the skills to analyze, model, and visualize data using Microsoft Power BI for impactful business insights.

> Group classes (Live Online) and onsite training are available for this course. For more information, email onsite@graduateschool.edu or visit: https://sdfm.graduateschool.edu/courses/pl300-microsoft-power-bi-data-analyst



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Course Outline

Module 1 Get Started with Microsoft Data Analytics

- Data Analytics and Microsoft
- Getting Started with Power BI

Module 2 Getting Data in Power BI

- Data Analytics and Microsoft
- Optimize Performance
- Resolve Data Errors

Module 3 Cleaning, Transforming, and Loading Data in Power BI

- Shaping the Data
- Profiling the Data
- Enhance the data structure

Module 4 Design a Data Model in Power BI

- Introduction to data modeling
- Working with tables
- Dimensions and Hierarchies
- Create Model Relationships
- Configure Tables and Column Properties
- Create hierarchies

Module 5 Create Model Calculations using DAX in Power BI

- Introduction to DAX
- Real-time dashboards

- Advanced DAX
- Create calculated tables
- Create calculated columns
- Create measures
- Use the CALCULATE() function to manipulate filter context
- Use Time Intelligence functions

Module 6 Optimize Model Performance in Power BI

- Optimize the data model for performance
- Optimize DirectQuery Models

Module 7 Create Reports in Power BI

- Design a report
- Enhance the report
- Create and configure Sync Slicers
- Create a drillthrough page
- Apply conditional formatting
- Create and use Bookmarks
- Design a report
- Configure visual fields and format properties

Module 8 Create Dashboards in Power BI

- Create a Dashboard
- Real-time Dashboards
- Enhance a Dashboard
- Create a Dashboard
- Pin visuals to a Dashboard
- Use Q&A to create a dashboard tile

Module 9 Identify Patterns and Trends in Power BI

- Advanced Analytics
- Data Insights through AI visuals
- Create animated scatter charts
- Use the visual to forecast values

Module 10 Create and Manage Workspaces in Power BI

- Creating Workspaces
- Sharing and Managing Assets

Module 11 Manage Files and Datasets in Power BI

- Parameters
- Datasets

Module 12 Row-level Security in Power BI

- Security in Power BI
- Configure many-to-many relationships

- Enforce row-level security