Course duration

- 4 days

Course Benefits

- Ingest, clean, and transform data
- Model data for performance and scalability
- Design and create reports for data analysis
- Apply and perform advanced report analytics
- Manage and share report assets
- Create paginated reports in Power BI

Available Delivery Methods

Public Class
Public expert-led online training from the convenience of your home, office or anywhere with an internet connection. Guaranteed to run .

Private Class
Private classes are delivered for groups at your offices or a location of your choice.

Microsoft Certified Partner

Webucator is a Microsoft Certified Partner for Learning Solutions (CPLS). This class uses official Microsoft courseware and will be delivered by a Microsoft Certified Trainer (MCT).

Course Outline

1. Get Started with Microsoft Data Analytics
   1. Data Analytics and Microsoft
   2. Getting Started with Power BI
   3. Lab: Getting Started
      1. Getting Started
2. Prepare Data in Power BI
   1. Get data from various data sources
   2. Optimize performance
   3. Resolve data errors

4. Lab: Preparing Data in Power BI Desktop
    1. Prepare Data
3. Clean, Transform, and Load Data in Power BI
    1. Data shaping
    2. Enhance the data structure
    3. Data Profiling
    4. Lab: Transforming and Loading Data
        1. Loading Data
4. Design a Data Model in Power BI
    1. Introduction to data modeling
    2. Working with tables
    3. Dimensions and Hierarchies
    4. Lab: Data Modeling in Power BI Desktop
        1. Create Model Relationships
        2. Configure Tables
        3. Review the model interface
        4. Create Quick Measures
    5. Lab: Advanced Data Modeling in Power BI Desktop
        1. Configure many-to-many relationships
        2. Enforce row-level security
5. Create Measures using DAX in Power BI
    1. Introduction to DAX
    2. DAX context
    3. Advanced DAX
    4. Lab: Introduction to DAX in Power BI Desktop
        1. Create calculated tables
        2. Create calculated columns
        3. Create measures
    5. Lab: Advanced DAX in Power BI Desktop
        1. Use the CALCULATE() function to manipulate filter context
        2. Use Time Intelligence functions
6. Optimize Model Performance
    1. Optimze the model for performance
    2. Optimize DirectQuery Models
    3. Create and manage Aggregations
7. Create Reports
    1. Design a report
    2. Enhance the report
    3. Lab: Designing a report in Power BI
        1. Create a live connection in Power BI Desktop
        2. Design a report
        3. Configure visual fields adn format properties
    4. Lab: Enhancing Power BI reports with interaction and formatting
        1. Create and configure Sync Slicers
        2. Create a drillthrough page
        3. Apply conditional formatting
        4. Create and use Bookmarks

8. Create Dashboards
    1. Create a Dashboard
    2. Real-time Dashboards
    3. Enhance a Dashboard
    4. Lab: Designing a report in Power BI Desktop - Part 1
        1. Create a Dashboard
        2. Pin visuals to a Dashboard
        3. Configure a Dashboard tile alert
        4. Use Q&A to create a dashboard tile
9. Create Paginated Reports in Power BI
    1. Paginated report overview
    2. Create Paginated reports
    3. Lab: Creating a Paginated report
        1. Use Power BI Report Builder
        2. Design a multi-page report layout
        3. Define a data source
        4. Define a dataset
        5. Create a report parameter
        6. Export a report to PDF
10. Perform Advanced Analytics
    1. Advanced Analytics
    2. Data Insights through AI visuals
    3. Lab: Data Analysis in Power BI Desktop
        1. Create animated scatter charts
        2. Use teh visual to forecast values
        3. Work with Decomposition Tree visual
        4. Work with the Key Influencers visual
11. Create and Manage Workspaces
    1. Creating Workspaces
    2. Sharing and Managing Assets
    3. Lab: Publishing and Sharing Power BI Content
        1. Map security principals to dataset roles
        2. Share a dashboard
        3. Publish an App
12. Manage Datasets in Power BI
    1. Parameters
    2. Datasets
13. Row-level security
    1. Security in Power BI

Class Materials

Each student will receive a comprehensive set of materials, including course notes and all the class examples.

Class Prerequisites

Experience in the following *is required* for this Microsoft Business Intelligence class:

- Understanding core data concepts.
- Knowledge of working with relational data in the cloud.
- Knowledge of working with non-relational data in the cloud.
- Knowledge of data analysis and visualization concepts.