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.