CLS Learning Solutions

Why Data Analyst Certifications ?

Enable everyone at every level of your organization to make confident decisions using up-to-the-minute Data analytics.

This Data Analysis Power BI Learning path is targeted toward those individuals who develop Data Analytics reports that visualize data from the data platform technologies such as Microsoft Excel or Microsoft SQL, that exist on both in the cloud and on-premises.

Audience Profile :

- Business Intelligence Professionals
- Data analysts
- IT Managers
- Professionals who use Power BI
- Data Scientists
- Professionals Managing Data for Decision-making
- Individuals who want to gain a clear understanding of the Microsoft Power BI Tool

Prerequisites:

- Basic knowledge of the Microsoft Windows operating system and its core functionality.
- Working knowledge of relational databases.
- Extensive knowledge of Excel spreadsheets including formulas, charts, filtering, sorting, and sub-totals.

Course Overview:

- Data analytics enable businesses to maximize the value of their data assets by using Microsoft Power BI Data Analysis.
- Data analysts are responsible for designing and building scalable data analytics models, cleaning and transforming data, and enabling advanced Data analytics capabilities that provide meaningful business value through easy-to-comprehend data visualizations.
- Create a data-driven culture with business intelligence Data Analysis.
- Master PowerBI Data analysis, Build Fanancial & HR Data analysis, Lean from Beginner to Advanced with Microsoft Power BI Certified Trainers.
- Learn though Practice Microsoft Power BI Data Analysis and create Dynamic Data Analytics reports & dashboards.
- Learn to perform data analysis using Power BI with the best Certified Microsoft Trainers in Data Analytics.
- Learn Microsoft Official Hours and Get Official Microsoft Material and Microsoft Certification.

In this Learning path

1. **Microsoft Power BI Data Analyst**
2. **Analyzing Data with Excel**

Microsoft Power BI Data Analyst Outline:

DISCOVER DATA ANALYTICS

- Overview of data analysis
- Roles in data

GET STARTED BUILDING WITH POWER BI

- Use Power BI
- Building blocks of Power BI

GET DATA IN POWER BI

- Get data from files
- Get data from relational data sources
- Create ynamic reports with parameters

CLEAN, TRANSFORM, AND LOAD DATA IN POWER BI

- Shape the initial data
- Simplify the data structure
- Evaluate and change column data types

DESIGN A DATA MODEL IN POWER BI

- Work with tables
- Create a date table
- Work with dimensions

ADD MEASURES TO POWER BI DESKTOP MODELS

- Create simple measures
- Create compound measures

ADD CALCULATED TABLES AND COLUMNS TO POWER BI DESKTOP MODELS

- Create calculated columns
- Learn about row context

USE DAX TIME INTELLIGENCE FUNCTIONS IN POWER BI DESKTOP MODELS

- Use DAX time intelligence functions
- Additional time intelligence calculations

OPTIMIZE A MODEL FOR PERFORMANCE IN POWER BI

- Review performance of measures, relationships, and visuals
- Use variables to improve performance and troubleshooting
- Reduce cardinality

DESIGN POWER BI REPORTS

- Design the analytical report layout
- Design visually appealing reports
- Report objects

CONFIGURE POWER BI REPORT FILTERS

- Apply filters to the report structure
- Apply filters with slicers
- Design reports with advanced filtering techniques

ENHANCE POWER BI REPORT DESIGNS FOR THE USER EXPERIENCE

- Design reports to show details
- Design reports to highlight values
- Design reports that behave like apps

PERFORM ANALYTICS IN POWER BI

- Introduction to analytics
- Explore statistical summary
- Identify outliers with Power BI visuals

CREATE AND MANAGE WORKSPACES IN POWER BI

- Distribute a report or dashboard
- Monitor usage and performance

MANAGE DATASETS IN POWER BI

- Use a Power BI gateway to connect to on-premises data sources
- Configure a dataset scheduled refresh

CREATE DASHBOARDS IN POWER BI

- Introduction to dashboards
- Configure data alerts
- Explore data by asking questions

IMPLEMENT ROW-LEVEL SECURITY

- Configure row-level security with the static method
- Configure row-level security with the dynamic method

Analyzing Data with Excel Outline:

Module 1: Data Analysis in Excel

- Classic Data Analysis with Excel
- Excel Pivot Tables
- Limitations of Classic Data Analysis

Module 2: The Excel Data Model

- Using an Excel Data Model
- DAX

Module 3: Importing Data from Files

- Importing Data into Excel
- Shaping and Transforming Data
- Loading Data

Module 4: Importing Data from Databases

- Available Data Sources
- Previewing, Shaping, and Transforming Data
- Table Relationships and Hierarchies
- Loading Data

Module 5: Importing Data from Excel Reports

- Importing Data from Excel Reports
- Transforming Excel report Data

Module 6: Creating and Formatting Measures

- DAX
- Measures
- Advanced DAX Functions

Module 7: Visualizing Data in Excel

- Pivot Charts
- Cube Functions
- Charts for Cube Functions

Module 8: Using Excel with Power BI

- Power BI
- Uploading Excel Data to Power BI
- Power BI Mobile App
- Describe Power Bi and the various versions available.
- Upload Excel data to Power BI.
- Describe the Power BI App.