

€ TRAINING

Mastering Data Analytics with Excel and
Power BI Strategies





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Introduction:

This training program is designed to equip participants with essential skills and knowledge to master data analytics using Excel and Power BI. It empowers them to analyze data effectively, visualize insights, and make data-driven decisions.

Program Objectives:

At the end of this program, participants will be able to:

- Understand the fundamentals of data analytics and its importance.
- Learn advanced Excel techniques for data analysis.
- Develop skills in using Power BI for data visualization and reporting.
- Gain insights into integrating Excel and Power BI for comprehensive data analysis.
- Enhance capabilities in making data-driven decisions based on analytical insights.

Targeted Audience:

- Data Analysts.
- Business Analysts.
- Financial Analysts.
- IT Professionals.
- Managers and Executives seeking to enhance their data analysis skills.

Program Outline:

Unit 1:

Fundamentals of Data Analytics:

- Introduction to data analytics and its applications.
- Understanding different types of data and data sources.
- Data cleaning and preparation techniques.

- Basic statistical concepts for data analysis.
- Introduction to Excel and Power BI as data analytics tools.

Unit 2:

Advanced Excel Techniques:

- Using advanced Excel functions and formulas for data analysis.
- PivotTables and PivotCharts for data summarization and visualization.
- Data analysis with Excel's Data Analysis Toolpak.
- Excel dashboards for interactive data visualization.
- Best practices for organizing and managing data in Excel.

Unit 3:

Power BI Basics:

- Introduction to Power BI and its components.
- Connecting to data sources and importing data into Power BI.
- Data transformation and modeling in Power BI.
- Creating basic visualizations and reports in Power BI.
- Sharing and publishing Power BI reports and dashboards.

Unit 4:

Advanced Power BI Strategies:

- Advanced data modeling and DAX Data Analysis Expressions in Power BI.
- Creating complex visualizations and custom visuals.
- Implementing row-level security and data governance in Power BI.
- Power BI Service and Power BI Desktop integration.
- Real-time data analysis and streaming in Power BI.

Unit 5:

Integrating Excel and Power BI:

- Combining Excel and Power BI for comprehensive data analysis.
- Importing Excel data into Power BI and vice versa.
- Using Power Query for data transformation in both tools.
- Creating interactive dashboards combining Excel and Power BI elements.
- Case studies on real-world applications of integrated data analytics.