BLACKBIRD FOR TRAINING

Analysis Using Excel and Power bi

14 – 18 December 2026
Munich (Germany)



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Introduction

Welcome to the "Advanced Techniques in Data Analysis with Excel and Power BI" course. In today's data-driven environment, organizations are increasingly reliant on effective data analysis to make informed decisions and gain a competitive edge. Excel and Power BI are among the most powerful tools for comprehensive business data analysis, enabling professionals to transform raw data into actionable insights.

This course is designed to provide participants with advanced knowledge and hands-on experience in leveraging these tools for data analysis. Whether you are new to data analysis using Power BI or looking to enhance your Excel analysis techniques, this course covers it all, ensuring you leave with the skills to excel in your career.

Course Objectives

- Understand the Importance of Data Analysis: Explore the role of data analysis in driving strategic decisions and creating business value.
- Master Data Analysis Tools: Learn how to use Excel and Power BI for advanced data analytics and business intelligence.
- Develop Practical Skills: Gain expertise in data cleaning, transformation, and modeling using Excel and Power BI.
- Create Impactful Visualizations: Learn how to design interactive dashboards and visualizations to communicate insights effectively.
- Apply Predictive Analysis: Use real-world case studies to apply predictive techniques and derive actionable insights.

Course Outlines

Day 1: Introduction to Data Analysis with Excel and Power BI

- Understanding the importance of data analysis in business decision-making.
- Introduction to Excel and Power BI as essential tools for data analytics.
- Best practices for importing, organizing, and preparing data in both tools.
- Overview of Power BI Analysis Services and its role in managing large datasets.



Day 2: Data Cleaning and Transformation

- Addressing common data quality issues and implementing solutions using Excel.
- Transforming raw data using Power Query in Excel and Power BI.
- Techniques for merging and appending data from multiple sources.
- Practical exercises in data transformation to prepare datasets for analysis.

Day 3: Data Modeling and Advanced Analytics

- Introduction to data modeling concepts and creating relationships between datasets.
- Using DAX Data Analysis Expressions to perform advanced calculations in Excel and Power BI.
- Techniques for predictive analysis using Excel and Power BI.
- Exploring Power BI statistical analysis tools for uncovering trends and patterns.

Day 4: Visualizations and Dashboard Design

- Principles of effective data visualization for impactful storytelling.
- Step-by-step creation of advanced visualizations and dashboards in Excel and Power BI.
- Building interactive dashboards for business data analysis and decision-making.
- Leveraging Power BI's advanced visualization tools for enhanced reporting.

Day 5: Real-World Applications and Final Project

- Applying data analysis skills to real-world business scenarios.
- Hands-on case studies to reinforce concepts and techniques learned during the course.
- Designing a comprehensive Power BI data analysis project to showcase your expertise.
- Final review and feedback on participants' projects.

Why Attend this Course? Wins & Losses!

- Master Data Tools: Learn to use Excel and Power BI for advanced data analysis and reporting.
- Improve Efficiency: Gain skills to analyze data more accurately and efficiently.
- Boost Career Prospects: Stand out with advanced skills in highly demanded tools.
- Portfolio Development: Complete a real-world data analysis project to demonstrate your expertise.

Conclusion

By completing this course, you will become proficient in advanced data analysis using Excel and Power BI. You'll gain the ability to perform comprehensive analyses, create insightful dashboards, and implement predictive analysis techniques. These skills will not only enhance your decision-making capabilities but also help you advance in your professional career.

Enroll now to transform your data analysis expertise and unlock the full potential of Excel and Power BI for driving impactful business decisions!

