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Course Name

Data Analysis through Power BI

Sector Name

Information Technology

Document Type

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Data Analysis through Power BI

Course Introduction

Data analysis is a key competency for extracting actionable insights from complex datasets, supporting informed decision-making, and driving organizational performance. Power BI is a powerful business intelligence tool that allows professionals to visualize, model, and analyze data efficiently. This course equips participants with the skills to connect to multiple data sources, transform and model data, and create interactive dashboards for reporting and decision support.

Through hands-on exercises and real-world datasets, participants will learn to leverage Power BI's capabilities to perform advanced analytics, visualize trends, and communicate findings effectively. Emphasis is placed on practical applications, from data preparation to dynamic reporting, ensuring participants can use Power BI to drive data-driven strategies within their organizations.

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Data Analysis through Power BI

Target Audience

- ✓ Finance and Accounting Professionals
- ✓ Operations and Performance Managers
- ✓ IT and ERP System Users

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Learning Objectives

- ✓ Connect to, clean, and transform data from multiple sources using Power BI.
- ✓ Create interactive dashboards, reports, and visualizations for business insights.
- ✓ Apply data modeling and DAX formulas to analyze and calculate key metrics.
- ✓ Perform trend, correlation, and scenario analysis to support decision-making.
- ✓ Communicate insights effectively to stakeholders using visual storytelling techniques

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Data Analysis through Power BI

Course Outline

✓ DAY 01

Introduction to Power BI and Data Fundamentals

- ✓ Overview of Power BI and its role in data analysis
- ✓ Understanding data types, structures, and sources
- ✓ Connecting to data sources: Excel, databases, and online services
- ✓ Introduction to Power Query for data cleaning and transformation
- ✓ Principles of effective data visualization and reporting

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Course Outline

✓ Day 02

Data Transformation and Modeling

- ✓ Importing and preparing data for analysis
- ✓ Cleaning, merging, and shaping datasets
- ✓ Introduction to data modeling concepts and relationships
- ✓ Creating calculated columns, measures, and tables
- ✓ Best practices for data integrity and model optimization

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Course Outline

✓ Day 03

Data Analysis with DAX (Data Analysis Expressions)

- ✓ Introduction to DAX and its applications
- ✓ Basic and advanced DAX functions for calculations
- ✓ Aggregation, filtering, and conditional analysis
- ✓ Time intelligence and trend calculations
- ✓ Using DAX to create key performance indicators (KPIs)

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Course Outline

✓ Day 04

Visualization and Interactive Reporting

- ✓ Designing effective visualizations: charts, graphs, and maps
- ✓ Building interactive dashboards with slicers and filters
- ✓ Using drill-through and drill-down functionalities
- ✓ Incorporating custom visuals and themes
- ✓ Principles of storytelling through data

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Course Outline

✓ Day 05

Advanced Analytics and Decision Support

- ✓ Scenario analysis and forecasting using Power BI
- ✓ Performing trend, correlation, and variance analysis
- ✓ Sharing reports and dashboards with stakeholders
- ✓ Best practices for monitoring, updating, and maintaining reports
- ✓ Applying insights to support strategic and operational decision-making

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
June 7, 2026	June 11, 2026	5 days	4250.00 \$	KSA , Riyadh
Nov. 15, 2026	Nov. 19, 2026	5 days	2150.00 \$	Virtual , Online
July 13, 2026	July 17, 2026	5 days	4950.00 \$	Turkey , Istanbul
April 5, 2027	April 9, 2027	5 days	4250.00 \$	UAE , Dubai

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