



Consulting and Training | Reach New Heights

Course Name

Data Analysis & Reporting using Power BI

Sector Name

Information Technology

Document Type

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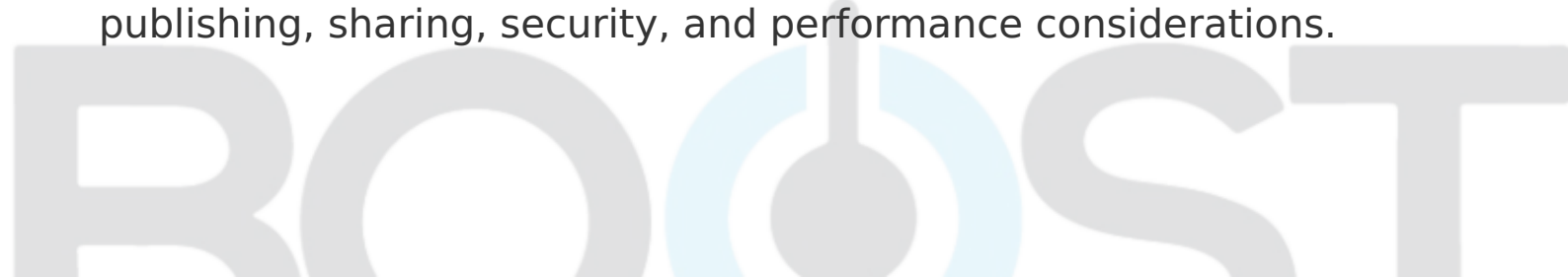
Data Analysis & Reporting using Power BI

Course Introduction

Organizations increasingly depend on reliable data to understand performance, identify trends, monitor operations, and support informed decisions. However, the value of data depends on the ability to connect different sources, prepare information accurately, structure it into meaningful analytical models, and present the resulting insights through interactive reports.

Power BI provides an integrated environment for connecting to data, transforming and preparing it, creating data models, developing calculations, building interactive reports, and sharing analytical outputs across an organization. Effective Power BI users therefore need more than visualization skills; they must understand the complete journey from raw data to trusted reporting.

This **five-day** program develops the core capabilities required to use Power BI for data analysis and professional reporting. It progresses from data acquisition and transformation through data modeling, DAX calculations, report development, analytical exploration, publishing, sharing, security, and performance considerations.



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Target Audience

- ✓ Data Analysts
- ✓ Business Analysts
- ✓ Reporting Professionals
- ✓ Business Intelligence Professionals
- ✓ Finance and Performance Analysts
- ✓ Operations and HR Analysts
- ✓ Managers responsible for data-driven reporting
- ✓ Professionals who work with Excel and organizational data
- ✓ Professionals seeking to develop practical Power BI capabilities

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Learning Objectives

- ✓ Understand the Power BI ecosystem and its core components.
- ✓ Connect Power BI to multiple data sources.
- ✓ Clean, transform, and prepare data using Power Query.
- ✓ Build structured data models and relationships.
- ✓ Create calculated measures using DAX.
- ✓ Develop interactive reports and dashboards.
- ✓ Apply filters, slicers, drillthrough, and navigation features.
- ✓ Analyze data to identify trends and performance patterns.
- ✓ Publish, share, and manage Power BI reports.
- ✓ Apply fundamental principles of report security and performance optimization.

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Course Outline

✓ Day 01

Power BI Foundations and Data Connectivity

- ✓ Power BI Environment and Analytical Workflow
- ✓ Understanding Power BI Desktop and Power BI Service
- ✓ Understanding the relationship between data, models, reports, and dashboards
- ✓ Exploring the end-to-end Power BI analytical workflow
- ✓ Understanding workspaces, reports, semantic models, and applications
- ✓ Identifying appropriate Power BI components for different reporting needs
- ✓ Establishing a structured approach to building analytical solutions

Connecting to Business Data Sources

- ✓ Connecting Power BI to files, databases, and organizational data sources
- ✓ Understanding data connection methods and source structures
- ✓ Importing and managing data within Power BI
- ✓ Working with multiple data sources
- ✓ Identifying data-source quality and compatibility considerations
- ✓ Managing data refresh requirements and source dependencies

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Course Outline

✓ Day 02

Data Preparation and Transformation

- ✓ Power Query and Data Preparation
- ✓ Understanding the role of Power Query in data preparation
- ✓ Removing errors, duplicates, and inconsistent records
- ✓ Transforming columns, values, and data types
- ✓ Combining and restructuring datasets
- ✓ Applying repeatable transformation steps
- ✓ Preparing data for reliable downstream analysis

Data Quality and Analytical Readiness

- ✓ Identifying common data-quality problems
- ✓ Handling missing, incomplete, and inconsistent data
- ✓ Establishing appropriate data-cleaning rules
- ✓ Validating transformed data before modeling
- ✓ Understanding the effect of poor data quality on reports
- ✓ Preparing reliable datasets for business analysis



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✓ Day 03

Data Modeling and DAX

- ✓ Data Modeling and Relationships
- ✓ Understanding the principles of effective Power BI data models
- ✓ Creating relationships between tables
- ✓ Understanding fact and dimension structures
- ✓ Managing relationship direction and cardinality
- ✓ Designing models that support flexible analysis
- ✓ Improving model clarity and analytical reliability

DAX Calculations and Measures

- ✓ Understanding the purpose and structure of DAX
- ✓ Creating calculated columns and measures
- ✓ Applying aggregation and analytical functions
- ✓ Understanding filter context and evaluation behavior
- ✓ Developing time-based and comparative calculations
- ✓ Validating calculations against business requirements

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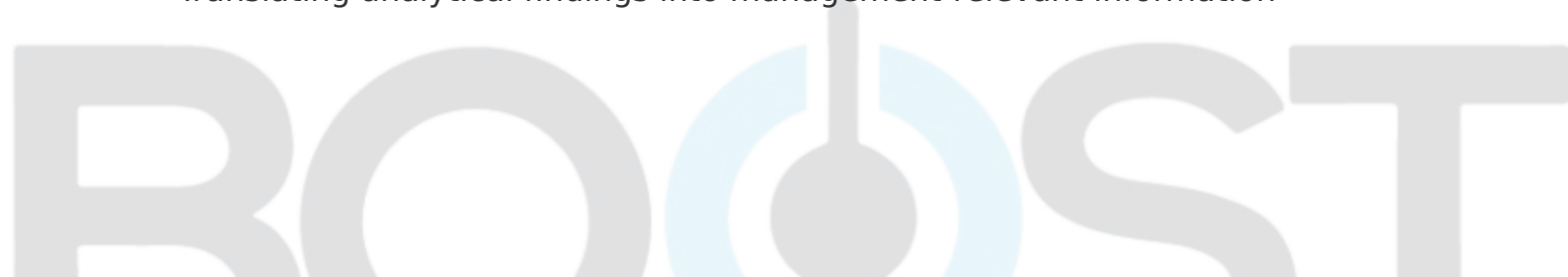
✓ Day 04

Interactive Reporting and Data Exploration

- ✓ Report Design and Visual Analytics
- ✓ Selecting appropriate visuals for analytical requirements
- ✓ Organizing report pages and visual hierarchy
- ✓ Applying filters, slicers, and interactive controls
- ✓ Using drillthrough and navigation features
- ✓ Designing reports for usability and analytical clarity
- ✓ Creating interactive views that support business exploration

Analytical Exploration and Insight Discovery

- ✓ Identifying trends, patterns, and significant variations
- ✓ Comparing performance across dimensions and periods
- ✓ Using interactive analysis to investigate anomalies
- ✓ Exploring relationships between business measures
- ✓ Supporting root-cause investigation through report interaction
- ✓ Translating analytical findings into management-relevant information



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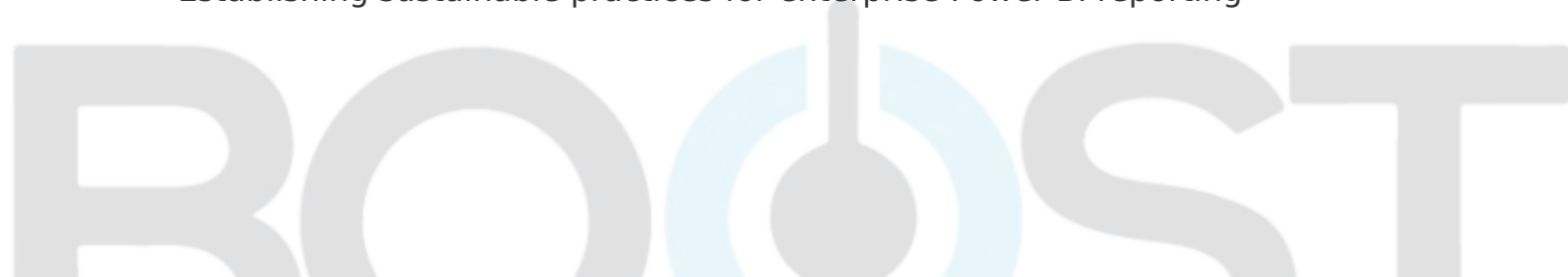
✓ Day 05

Power BI Deployment, Governance and Performance

- ✓ Publishing, Sharing and Report Management
- ✓ Publishing reports from Power BI Desktop to the Power BI Service
- ✓ Organizing content within workspaces
- ✓ Sharing reports and analytical content with users
- ✓ Managing report distribution and access
- ✓ Understanding refresh and subscription considerations
- ✓ Supporting collaborative consumption of Power BI outputs

Security, Performance and Reporting Reliability

- ✓ Understanding fundamental Power BI security principles
- ✓ Applying role-based access considerations
- ✓ Identifying factors affecting report performance
- ✓ Optimizing models and report structures for efficient use
- ✓ Maintaining consistency and reliability across published reports
- ✓ Establishing sustainable practices for enterprise Power BI reporting



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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Oct. 18, 2027	Oct. 22, 2027	5 days	4250.00 \$	UAE , Abu Dhabi
Jan. 17, 2027	Jan. 21, 2027	5 days	4250.00 \$	KSA , Riyadh

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