Power Business Intelligence for Big Data Training Course

Professional Development Training Course Outline

Category	Business Intelligence	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

Power Business Intelligence for Big Data Training Course is a comprehensive program designed to equip professionals with advanced analytical and visualization skills for handling massive datasets. This course focuses on integrating Power BI with Big Data platforms to uncover actionable insights, drive data-driven decisions, and optimize business performance. Participants will gain hands-on experience in transforming raw data into dynamic dashboards and interactive reports while leveraging trending analytical tools, real-time analytics, and predictive modeling techniques.

With the increasing demand for data-driven strategies in modern enterprises, this training empowers professionals to harness the power of Big Data using Power BI. The program emphasizes practical applications, performance optimization, and real-world case studies, ensuring participants can implement efficient data analytics workflows. By the end of this course, learners will be able to design scalable solutions for reporting, data visualization, and decision-making, aligning with current industry trends and business intelligence best practices.

Programme Curriculum

Power Business Intelligence for Big Data Training Course

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Course Objectives

1. Master Power BI architecture and integration with Big Data ecosystems.
2. Develop advanced data modeling and transformation skills for large datasets.
3. Create interactive dashboards and real-time reporting solutions.
4. Leverage DAX (Data Analysis Expressions) for complex data calculations.
5. Implement predictive analytics and AI-driven insights in Power BI.
6. Optimize performance for handling Big Data using Power BI.
7. Apply ETL (Extract, Transform, Load) processes on large-scale datasets.
8. Connect Power BI to various Big Data sources, including Hadoop and Azure Data Lake.
9. Ensure data governance, security, and compliance in reporting solutions.
10. Use visualization best practices to communicate insights effectively.
11. Design scalable and reusable data models for enterprise applications.
12. Apply real-world business scenarios for actionable decision-making.
13. Build end-to-end Big Data analytics solutions with Power BI integration.

Organizational Benefits

- Enhanced decision-making through interactive dashboards.
- Faster data analysis from Big Data platforms.
- Improved operational efficiency with actionable insights.
- Streamlined reporting across departments.
- Predictive analytics to anticipate market trends.
- Real-time monitoring of KPIs and business metrics.
- Standardized data governance and compliance.
- Reduced dependency on IT for reporting tasks.
- Empowered teams with self-service analytics.
- Competitive advantage through data-driven strategies.

Target Audiences

1. Data Analysts and Business Intelligence Professionals
2. Data Engineers and Data Scientists
3. IT Managers and BI Developers
4. Business Managers and Decision-Makers
5. Big Data Professionals and Architects
6. Finance and Marketing Analysts
7. Operations and Strategy Professionals
8. Students and Professionals seeking Power BI certification

Course Duration: 5 days

Course Modules

Module 1: Introduction to Power BI and Big Data

- Overview of Power BI and Big Data concepts
- Power BI architecture and components
- Connecting Power BI to Big Data platforms
- Data types, sources, and integration techniques
- Case Study: Building a sales performance dashboard with Big Data
- Hands-on practical exercises

Module 2: Data Transformation and Modeling

- Using Power Query for data transformation
- Data cleaning and preprocessing techniques
- Advanced data modeling with relationships
- Handling large datasets efficiently
- Implementing calculated columns and measures
- Case Study: Financial data modeling for forecasting

Module 3: Advanced Data Visualization Techniques

- Designing interactive dashboards and reports
- Using charts, maps, and custom visuals
- Applying conditional formatting for insights
- Drill-through and drill-down analysis
- Creating KPI indicators and scorecards
- Case Study: Marketing analytics dashboard visualization

Module 4: DAX for Big Data Analytics

- Introduction to DAX functions and formulas
- Time intelligence and aggregation functions
- Advanced calculations and measures
- Handling large data models with DAX
- Optimization techniques for performance
- Case Study: Predicting customer churn with DAX

Module 5: Real-Time Data and Streaming Analytics

- Connecting Power BI to streaming datasets
- Real-time dashboards and alerts
- Performance optimization for live data
- Monitoring operational metrics in real-time
- Integration with IoT and cloud services
- Case Study: Real-time sales monitoring dashboard

Module 6: Big Data Integration Techniques

- Connecting to Hadoop, Spark, and Azure Data Lake
- Import vs DirectQuery vs Composite models
- Data extraction and ETL processes
- Handling semi-structured and unstructured data
- Data transformation best practices

- Case Study: Retail Big Data analytics solution

Module 7: Predictive Analytics and AI in Power BI

- Integrating AI insights and Machine Learning models
- Forecasting and trend analysis
- Scenario planning and simulations
- Anomaly detection with Power BI AI visuals
- Using Python and R scripts for advanced analytics
- Case Study: Predictive sales analytics using AI

Module 8: Governance, Security, and Deployment

- Data governance frameworks and best practices
- Role-level security and access management
- Deployment pipelines and version control
- Auditing and compliance with organizational standards
- Optimizing report performance and user experience
- Case Study: Implementing secure dashboards for enterprise use

Training Methodology

- Instructor-led interactive sessions
- Hands-on lab exercises with real datasets
- Live demonstrations of Power BI integration with Big Data
- Group exercises and collaborative learning activities
- Case study discussions for real-world problem-solving
- Q&A sessions for personalized guidance

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org or call *+254769199797*

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
23 Nov 2026	27 Nov 2026	Online	$1,000
23 Nov 2026	27 Nov 2026	Physical	$1,500
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$4,500
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$6,000

Ready to enroll or request a customized program? Book online or contact us:

Register Online Now

Email: info@fineskilltrainingcenter.com | Website: www.fineskilltrainingcenter.com