Power BI for Research Reporting and Analytics Training Course

Professional Development Training Course Outline

Category	Research and Data Analysis	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

In today’s data-driven landscape, research institutions and professionals are increasingly turning to Power BI to transform raw data into actionable insights. Power BI for Research Reporting and Analytics Training Course is meticulously designed to equip participants with the advanced skills in data visualization, analytics, and dashboard creation using Microsoft Power BI. By integrating data science principles with user-friendly tools, this course empowers researchers to effectively communicate their findings, make data-backed decisions, and streamline reporting processes.

Whether you're in academic research, public policy, healthcare, or market research, this course provides hands-on experience with data modeling, interactive visualizations, and automated reporting systems. Through practical modules, live case studies, and scenario-based exercises, learners will master how to harness the full potential of Power BI for research analysis, ensuring data transparency, accuracy, and strategic value.

Programme Curriculum

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Course Objectives

Learners will be able to:

1. Understand the fundamentals of Power BI architecture and its role in data analytics.
2. Connect and transform multiple data sources for real-time research insights.
3. Apply DAX (Data Analysis Expressions) for enhanced data calculations.
4. Create dynamic and interactive Power BI dashboards for storytelling.
5. Implement data cleaning and transformation techniques using Power Query.
6. Analyze trends and patterns in complex research data sets.
7. Design visually impactful research reports using Power BI visuals.
8. Automate data refresh and report distribution for recurring research needs.
9. Leverage AI-powered visuals and Q&A features for deeper insights.
10. Secure and manage data access using roles and permissions.
11. Optimize report performance for large-scale research databases.
12. Integrate Power BI with Excel, R, Python, and Azure for advanced analytics.
13. Prepare and present case studies with real-world research analytics challenges.

Target Audience

1. Academic Researchers & Analysts
2. Data Scientists & Statisticians
3. Healthcare Researchers
4. Market and Business Intelligence Analysts
5. NGO and Public Policy Officers
6. Research Managers & Project Coordinators
7. Graduate and PhD Students
8. Government Data Analysts

Course Duration: 5 days

Course Modules

Module 1: Introduction to Power BI in Research

- Overview of Power BI ecosystem and components
- Benefits of Power BI for research environments
- Understanding dashboards vs. reports
- Exploring the Power BI interface
- Importing research datasets
- **Case Study**: Using Power BI for academic grant reporting

Module 2: Data Loading and Transformation

- Connecting to structured/unstructured data
- Power Query Editor basics
- Transforming columns and cleaning data
- Merging and appending datasets
- Data type standardization and date hierarchies
- **Case Study**: Cleaning and transforming survey data

Module 3: Data Modeling and Relationships

- Importance of data models in analytics
- Creating and managing relationships
- Star schema and snowflake schema
- Creating calculated columns and measures
- Best practices in modeling for research data
- **Case Study**: Modeling a public health dataset

Module 4: Mastering DAX for Research Calculations

- Introduction to DAX syntax and functions
- Measures vs. calculated columns
- Time intelligence functions
- Filtering and context manipulation
- Optimizing complex calculations
- **Case Study**: Applying DAX to clinical trial data

Module 5: Visualization and Storytelling

- Selecting appropriate visuals for research data
- Custom visuals and formatting tips
- Using slicers and filters
- Drill-through and tooltip pages
- Storytelling with dashboards
- **Case Study**: Visualizing economic research trends

Module 6: Automating Reports and Sharing Insights

- Scheduling data refreshes
- Publishing to Power BI Service
- Embedding dashboards in websites
- Power BI apps and workspaces
- Sharing and collaboration techniques
- **Case Study**: Monthly reporting for NGO impact studies

Module 7: Advanced Analytics with Power BI

- Using AI visuals like Decomposition Tree
- Integrating Python and R visuals
- Trend forecasting and clustering
- Scenario and what-if analysis
- Power BI with Azure Machine Learning
- **Case Study**: Predictive analytics in environmental research

Module 8: Security, Performance, and Best Practices

- Row-level security implementation
- Performance optimization strategies
- Managing large datasets
- Data privacy and compliance
- Version control and documentation
- **Case Study**: Secure access for a multi-stakeholder research project

Training Methodology

- Interactive instructor-led sessions

- Hands-on labs with sample datasets
- Group-based case study analysis
- Live Q&A and expert support
- Assignments and project work per module
- Certification upon completion

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

Start Date	End Date	Location	Price
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