



**African Helix**  
Training

*In Pursuit of Excellence and Beyond...*



Microsoft®  
**Power BI**  
Masterclass

**Course Content**

-  +27 87 265 1521
-  +27 68 647 2330
-  [info@africanhelix.com](mailto:info@africanhelix.com)
-  [alvin@africanhelix.com](mailto:alvin@africanhelix.com)
-  [www.africanhelix.com](http://www.africanhelix.com)



## Overview

This intensive two-day workshop is designed to elevate your Power BI skills from Basic to advanced. Whether you are looking to harness the full power of Power BI's data visualization capabilities, optimize your reports, or integrate complex data models, this course will provide you with the tools and knowledge needed to excel.



## Course Prerequisites

Knowledge of data modelling concepts and basic DAX functions. Understanding of SQL queries and databases (preferred but not required).



## Target Audience

Data Analysts, Business Intelligence Professionals, Data Scientists, IT Professionals and Decision Makers



## Course Outline

**Please note that due to the dynamic nature of Office 365/Microsoft 365 some content may change without notice.**



## Duration

**In Class/Virtual Class: 2 Day**  
(08:30 – 15:30)



## Delivery Methods

- On-Site
- At designated location
- Virtual Live



## What You Get

- Certificate of Completion



## Outcomes and Objectives

- Advanced Data Modelling: Create and manage complex data models.
- Custom Visualizations: Develop custom visualizations and dashboards.
- DAX Formulas: Utilize advanced DAX (Data Analysis Expressions) formulas.
- Optimization: Optimize report performance and data refresh rates.





## **Day 1: Introduction to Power BI and Data Visualization**

### **Session 1: Introduction to Power BI**

- Overview of Power BI
- Components of Power BI (Power BI Desktop, Power BI Service, Power BI Mobile)
- Key features and benefits

### **Session 2: Power BI Desktop Overview**

- Installation and setup
- Navigating the Power BI Desktop interface
- Understanding data sources and connections
- Importing data from various sources (Excel, SQL Server, Web)

### **Session 3: Data Transformation and Modelling**

- Introduction to Power Query Editor
- Data cleaning and transformation (filtering, merging, pivoting)
- Creating and managing relationships between tables
- Introduction to DAX (Data Analysis Expressions) for calculations

### **Session 4: Creating Reports and Visualizations**

- Overview of report layout and design
- Building visualizations (charts, tables, maps)
- Customizing visualizations (colours, labels, tooltips)
- Using slicers and filters for interactive reports

### **Session 5: Hands-on Exercise**

- Create a report from scratch using sample data
- Apply transformations and build visualizations
- Design a dashboard with interactive elements

## **Day 2: Advanced Power BI Techniques and Deployment**

### **Session 6: Advanced Data Modelling**

- Advanced DAX functions and calculations
- Creating calculated columns and measures
- Time intelligence functions and their use cases



### **Session 7: Power BI Service and Sharing Reports**

- Publishing reports to Power BI Service
- Creating and managing workspaces
- Setting up and managing permissions and access

### **Session 8: Data Refresh and Scheduled Refresh**

- Configuring data refresh settings
- Handling data refresh errors
- Setting up scheduled refresh for live data updates

### **Session 9: Power BI Mobile and Report Optimization**

- Power BI Mobile app overview
- Designing reports for mobile view
- Optimizing reports for performance and user experience

### **Session 10: Hands-on Exercise**

- Publish and share reports via Power BI Service
- Set up scheduled refresh and configure permissions
- Optimize a report for mobile viewing

### **Session 11: Best Practices and Troubleshooting**

- Best practices for report design and data modelling
- Common issues and troubleshooting tips
- Q&A and open discussion

### **Session 12: Final Project and Review**

- Complete a final project involving all concepts learned
- Review and feedback
- Wrap-up and next steps for continued learning



**For More Details and to Register, Please Contact**

**Course Coordinator**

Alvin Mlambo

Phone: +27 (0) 87 265 1521

Cell: +27 (0) 68 647 2330

Email: [alvin@africanhelix.com](mailto:alvin@africanhelix.com)

Website: [www.africanhelix.com](http://www.africanhelix.com)

**Course Leader**

Lynnett Ndhlovu

Phone: +27 (0) 83 278 2344

Cell: +27 (0) 73 114 3092

Email: [lynnett@africanhelix.com](mailto:lynnett@africanhelix.com)

Website: [www.africanhelix.com](http://www.africanhelix.com)

**ENROLL NOW**

