enosis learning
Creating Software Professionals

POWER BI COURSE CONTENTS

CHAPTER 1: Introduction to Power BI

- Introduction to Power BI
- Power BI Architecture
- Components of Power BI
- Relationship between Excel &Power BI
- Why power BI
- Downloading and installing Power BI
- Power BI Desktop &Power BI Services
- Building blocks of Power BI
- Power BI Editor
- Power BI File Sources
- Connecting to different file systems like flat file, excel etc.
- Relationship in Datasets
- Editing Relationship in Datasets
- Defining relationships between tables

Assignment 1

CHAPTER 2: Visualization in Power BI

- Working with different visualization
- Data Visualizations with Power BI
- Binding Charts with Data
- Bar Charts
- Card
- Slicers
- Charting Features
- Data fields, Formatting & Analytics
- Field Properties: Axis, Legend, Value, Tooltip
- Formats: Legend, Axis, Data Labels, Plot Area
- Data Labels: Visibility, Color and Display Units
- Analytics: Constant Line, Position, Labels

Assignment 2

CHAPTER 3: Types of Visualizations

- STACKED BAR CHART, STACKED COLUMN CHART
- CLUSTERED BAR CHART, CLUSTERED COLUMN CHART
- 100% STACKED BAR CHART, 100% STACKED COLUMN CHART
- LINE CHARTS, AREA CHARTS, STACKED AREA CHARTS
- LINE AND STACKED ROW CHARTS
- LINE AND STACKED COLUMN CHARTS
- WATERFALL CHART, SCATTER CHART, PIE CHART
- Working with table and matrix visuals
- Gauge and KPI
- Maps
- Power BI Question & Answers

Assignment 3

CHAPTER 4: Power BI Advanced Features

- Tooltips
- Filters
- Types of Filters
- Visualization filters
- Page Filters
- Report Filters
- BookMarks
- Creating Navigation in Power BI
- Interactions in Power BI
- Edition Interactions in Power BI
- Selection Pane in Power BI
- Hiding / UnHiding Using Selection Pane

Assignment 4

Evaluation 1 : TEST / EXAM TO GAUGE THE PERFORMANCE   (Mockup Interview)

CHAPTER 5: Power BI Data Transformation (Day 9,10)	CHAPTER 6: Power BI Data Sources (Day 11, 12)
• Data Transformation in Power BI • Editing Data Sources • Data Sets • Editing Datasets • Applying Changes to Datasets • Cleaning Datasets in Power • Reverting changes to Datasets • Remove Rows • Remove error records , blank rows • Remove columns • Split columns and Merge Columns • Choosing required columns in the data • Changing Columns DataType • Working with different transformations • Applied steps in query editor • Arithmatics Functions • DateTime Functions • Rounding • Creating Calculated Columns • Creating index and custom columns • Creating Conditional Columns • Group By functionality in Query Editor • Merge Queries and Append Queries • Merging Data from different data sources • Append Data from different data sources **Assignment 5**	• File Data Sources (PDF etc) • Connecting to different database like sql server, mysql etc. • Power BI Web Sources • Fetching data from different files • Connecting to SQL SERVER Data Sources • Working with import and direct query • Connecting with Views, Stored Procedures etc • Difference between Import and DirectQuery • Connected to Different web sources • Connecting to JSON , XML etc • Connecting to OData • Creating custom table **Assignment 6**
CHAPTER 7 : DAX in Power BI (Day 13,14)	CHAPTER 8 : Advanced DAX Functions(Day 15.16)
• Working with DAX Functions • Understanding Calculated Column • Creating Calculated Columns • Understanding Measures • Creating Measures • Difference between Columns & Measures • Calculated Measures by using DAX • Parameters with DAX	• Table Functions(ALL, ALLEXCEPT, FILTER) • CALENDAR, DATESBETWEEN • DAX Calculations and Measures • ISTEXT, FORMAT • Time Intelligence Functions with DAX • YTD, QTD, MTD Calculations with DAX • Data Analysis Expressions and Functions • ENDOFYEAR,

- Variables - Date functions - String functions - Arithmetic Functions - Logical Functions - Relationship functions - Math/Statistics function - Information functions **Assignment 7**	ENDOFQUARTER,ENDOFMONTH - FIRSTDATE, LASTDATE, DATESBETWEEN - SAMEPERIODLAST YEAR, PARALLEL PERIOD - FILTER FUNCTIONS - Using RANKX **Assignment 8**

Evaluation 2 : TEST / EXAM TO GAUGE THE PERFORMANCE   (Mockup Interview)

CHAPTER 9 : Power BI Deployment	CHAPTER 10 : Gateway,Data Refresh, Security
- Understanding PowerBI Cloud Architecture - Power BI Server Configuration - PowerBI Cloud Account and Workspace - Creating Account in Power BI Services - Power BI Users - Types of Users -> Free, Pro, Premium - Deployment Power BI Desktop Reports - Managing report in Power BI Services - Editing Reports in Power BI Servers - Downloading PBIX files from Server - Share dashboards to Client /Users	- Gateways - PowerBI Gateway -Download and Installation - Data Refresh with Power BI Architecture - PowerBI Settings : Dataset -Gateway Integration - Configuring Dataset for Manual Refresh of Data - Configuring Automatic Refresh and Schedules - Security Features in Power BI - Power BI Mobile Apps

Evaluation 3 :FINAL TEST / EXAM TO GAUGE THE PERFORMANCE   (Mockup Interview)