

# 2 – DAY BUSINESS INTELLIGENCE (BI) – BIG DATA ANALYTICS



## Introduction

This 2-Day instructor-led course provides individuals with the knowledge and skills to analyse data with Power BI.

## Course Objectives

By the end of this course, you will be able to:

- Describe self-service BI
- Describe the Power BI suite of products
- Connect to data sources and optimise data models

## Methodology

- Instructor-led training

## PREREQUISITES

In addition to their professional experience, participants who attend this training should already have the following technical knowledge:

- Basic knowledge of the Microsoft Windows operating system and its core functionality.
- Basic knowledge of data warehouse schema topology (including star and snowflake schemas).
- Some exposure to basic programming concepts (such as looping and branching).
- An awareness of key business priorities such as revenue, profitability, and financial accounting is desirable.
- Familiarity with Microsoft Office applications – particularly Excel.

## Who Should Attend?

- Professionals who need to analyse data utilising Power BI
- Technically proficient business users.

# 2 – DAY BUSINESS INTELLIGENCE (BI) – BIG DATA ANALYTICS



## Course Outline

### MODULE 1: INTRODUCTION TO SELF-SERVICE BI SOLUTIONS

- Introduction to Business Intelligence
- Introduction to Data Analysis
- Introduction to Data Visualisation
- Overview of Self-Service BI
- Considerations for Self-Service BI
- Microsoft Tools for Self-Service BI

#### Lab: Exploring an Enterprise BI Solution

- Viewing Reports
- Creating a Power BI Report
- Creating a Power BI Dashboard

### MODULE 2: INTRODUCING POWER BI

- Power BI
- The Power BI Service

#### Lab: Creating a Power BI Dashboard

- Connecting to Power BI Data
- Create a Power BI Dashboard

### MODULE 3: POWER BI DATA

- Using Excel as a Data Source for Power BI
- The Power BI Data Model
- Using Databases as a Data Source for Power BI
- The Power BI Service

#### Lab: Importing Data into Power BI

- Importing Excel files into Power BI
- Viewing Reports from Excel Files

### MODULE 4: SHAPING AND COMBINING DATA

- Power BI Desktop Queries
- Shaping Data
- Combining Data

#### Lab: Shaping and Combining Data

- Shape Power BI Data
- Combine Power BI Data

### MODULE 5: MODELLING DATA

- Relationships
- DAX Queries
- Calculations and Measures

#### Lab: Modelling Data

- Create Relationships
- Calculations

### MODULE 6: INTERACTIVE DATA VISUALIZATIONS

- Creating Power BI Reports
- Managing a Power BI Solution

#### Lab: Shaping and Combining Data

- Connecting to Power BI Data
- Building Power BI Reports
- Creating a Power BI Dashboard



# 2 – DAY BUSINESS INTELLIGENCE (BI) – BIG DATA ANALYTICS



## Course Outline

### MODULE 7: DIRECT CONNECTIVITY

- Cloud Data
- Connecting to Analysis Services

#### Lab: Direct Connectivity

Direct Connections to Power BI

### MODULE 8: DEVELOPMENT WITH POWER BI

- The Power BI API
- Custom Visuals

#### Lab: Using Marketplace Visualisations

- Using a Custom Visualisation

### MODULE 9: POWER BI MOBILE

- Power BI Mobile Apps
- Using the Power BI Mobile App

