

KOENIG SOLUTIONS • COURSE OUTLINE

Introduction to Power BI DAX

Learn to write DAX formulas in Power BI to build calculated columns, measures, tables and time intelligence.

16 Hours

DURATION

10

MODULES

47

TOPICS

COURSE OVERVIEW

This course introduces learners to the fundamentals of DAX in Power BI. Participants will learn how DAX works within the data model, write formulas, and create calculated columns, measures, and basic tables. The course covers essential DAX functions, evaluation context, variables, and basic time intelligence. Through guided exercises and practical examples, learners will develop the skills to build meaningful business calculations and enhance Power BI reports with dynamic insights.

WHO THIS COURSE IS FOR

This course is ideal for:

Power BI beginners and intermediate users

Business/Data Analysts who work with reports and KPIs

BI developers responsible for building dashboards

Excel users transitioning into Power BI

Students and professionals starting a career in data analytics

LEARNING OBJECTIVES

- Explain how DAX works within the Power BI data model
- Differentiate calculated columns, measures and calculated tables
- Apply DAX syntax rules, data types and operators
- Identify row context and filter context in calculations
- Use variables with VAR and RETURN syntax
- Apply aggregation, text, logical and error-handling functions
- Apply table functions such as FILTER, VALUES and ALL
- Build time intelligence calculations such as YTD and MTD

10 Modules, 47 Topics

01

Introduction to DAX

TOPICS

What is DAX? · Why DAX is Important in Power BI · Understanding Data Models & Relationships

TYPES OF DAX CALCULATIONS:

Calculated Columns · Measures · Calculated Tables

Difference Between DAX & Excel Formulas

02

DAX Syntax & Basics

TOPICS

DAX Syntax Rules · Data Types in DAX · Operators (Math, Comparison, Logical) · Writing Your First DAX Expressions

03

Working with Columns, Measures & Tables

TOPICS

Creating Calculated Columns · Creating Measures · Creating Calculated Tables · When to Use Columns vs Measures

04

Understanding Evaluation Context

TOPICS

- What is Row Context?
- What is Filter Context?
- Context Examples
- Introduction to CALCULATE() (Beginner-Level Explanation)

05

Using Variables

TOPICS

What Are DAX Variables? · **Syntax:** VAR and RETURN

06

DAX Functions

AGGREGATION FUNCTIONS

SUM · AVERAGE · COUNT · DISTINCTCOUNT

TEXT FUNCTIONS

CONCATENATE · LEFT / RIGHT / MID

LOGICAL FUNCTIONS

IF · AND / OR

ERROR HANDLING

IFERROR · ISBLANK

07

Table Functions

TOPICS

FILTER (Beginner Examples) · VALUES (Use Cases) · ALL (Removing Filters)

08

Introduction to Time Intelligence

TOPICS

What Is a Calendar Table? · Year-to-Date (YTD) · Month-to-Date (MTD) · Period Comparisons

09

Practical DAX Applications

CREATING BUSINESS CALCULATIONS

Profit · Margin % · Growth %

Creating Dynamic Titles · Using DAX for Conditional Formatting

10

Putting It All Together

TOPICS

Applying Filters · Creating Measures for a Dashboard · Common Mistakes · Practice Exercises

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

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Live Online Classes (ILO)

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