

# Introduction to DAX for Excel 2016 Users - Level 3

## Course Overview

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This is a 2-day class

This course is built for Power BI for Excel Designers that will be responsible for taking basic PowerPivot data models turning them into power business intelligence solutions.

## Who Should Attend

Those who have completed Excel levels 1, 2 & 3, including PivotTable & Pivot Chart skills; plus a basic understanding of database concepts. Power BI for Excel: Data Model Designer. This course is built for Power BI for Excel Designers that will be responsible for taking basic PowerPivot data models turning them into power business intelligence solutions.

## Course Objectives

Students will learn: - An in depth approach to the DAX language, teaching designers how to build models that extend the capabilities of source data for more in-depth, customized business intelligence solutions. - Specific topics covered include proper understanding of DAX evaluation, controlling evaluation context, understanding relational functions, error handling within the data model, working with complex time intelligence calculations, creating advanced DAX dashboards and report elements using Slicers.

## Course Outline

### 1 DAX FUNCTIONALITY REVIEW

- Review Of Calculated Column
- PivotTable Function
- Review Of Measure
- Rules Of DAX Measure
- Evaluation Context
- Formatting DAX Code

### 2 CONTROLLING CONTENT & VALUES

- Controlling Values
- Switch Function
- Error Handling

### 3 CONTEXT CONTROL FUNCTIONS

- Filter Function
- All Function
- Iterative Functions
- Earlier Function
- Calculate Function
- Additional Uses Of The All Function

### 4 CONTEXTS IN RELATIONSHIPS

- Working With Many Tables
- Row Context & Relationships
- Filter Context & Relationships
- Values Function

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## 5 ADVANCED CONCEPTS

- Circular Dependencies
- Controlling Totals
- Advanced Hierarchy Concepts

## 6 TIME INTELLIGENCE CALCULATIONS

- Working With Date Tables
- Calculating Operating Periods
- Working With Missing Periods
- DAX Date Functions
- Advanced Date Functions
- Prior Year Functions
- Moving Averages

## 7 DAX DASHBOARD TECHNIQUES

- Parameter Tables
- Banding
- Ranking
- Advanced Slicer Techniques